

=> dis his

(FILE 'WPINDEX, USPATFULL' ENTERED AT 12:09:09 ON 02 NOV 95)
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 12:29:29 ON 02 NOV 95
L1 0 S DCQNYI/SQEP
E DCQNYI/SQEP
L2 0 S CGT[NG] [AS] ..P
L3 15 S CGT[NG] [AS] ..P/SQSP
L4 0 S L3 AND 8/SQL

=> d 13 1-15 sqide can;fil ca,capr,caplu,caol;s 13

L3 ANSWER 1 OF 15 REGISTRY COPYRIGHT 1995 ACS
RN 168458-97-7 REGISTRY
CN Semaphorin SemD (mouse) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin SemD (mouse)
FS PROTEIN SEQUENCE
SQL 772

SEQ 1 MGWFTGIACL FWGVLLTARA NYANGKNNVP RLKLSYKEML ESNNVITFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF NLVNIKDFQK IVWPVSYTRR
101 DECKWAGKDI LKECANFIKV LEAYNQTHLY ACGTGAFHPI CTYIEVGHHP
=====

151 EDNIFKLQDS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
201 IFRTLGDHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKVYFFFREN
251 AIGGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
301 IDTHFDELQD VFLMNSKDPK NPIVYGVFTT SSNIFKGSAV CMYSMSDVRR
351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
401 TFGRSHPAMY NPVFPINNRP IMIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDVGTVLK VVSVPKETWH DLEEVVLEEM TVFREPTTIS AMELSTKQQQ
501 LYIGSTAGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS SCSRYFPTAK
551 RRTRRQDIRN GDPLTHCSLD EDHDNNHGPS LEERIIYGVE NSSTFLECSP
601 KSQRALVYWQ FQRRNRRSKR EIRMGDHIIIR TEQGLLLRSL QKKDSGNYLC
651 HAVEHGFMQT LLKVTLVID TEHLEELLHK DDDGDGSKIK EMSSSMTPSQ
701 KVWYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRRQRPGH SQGSSNKWKH
751 MQESKKGRNR RTHEFERAPR SV

HITS AT: 132-139

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:221278

L3 ANSWER 2 OF 15 REGISTRY COPYRIGHT 1995 ACS
RN 167974-68-7 REGISTRY
CN Semaphorin III (mouse clone pMSemaIIIA fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin (mouse clone pMSemaIIIA fragment)
FS PROTEIN SEQUENCE
SQL 666

SEQ 1 GKDLKECAN FIKVLEAYNQ THLYACGTGA FHPICTYIEV GHHPEDNIFK
===== ==

51 LQDSHFENGR GKSPYDPKLL TASLLIDGEL YSGTAANFMG RDFAIFRTLG
101 HHHPIRTEQH DSRWLNDPRF ISAHLIPESD NPEDDKVYFF FRENAIDGEH
151 SGKATHARIG QICKNDFGGH RSLVNWKTTF LKARLICSVP GPNGIDTHFD
201 ELQDVFLMNS KDPKNPIVYG VFTTSSNIFK GSAVCMSMS DVRRVLLGPY
251 AHRDGPNYQW VPYQGRVPYP RPGTCPSKTF GGFNSTKDLP DDVITFARSH
301 PAMYNPVFPI NNRPIMIKTD VNYQFTQIVV DRVDAEDGQY DVMFIGTDVG
351 TVLKVVSVPK ETWHDLEEV LEMTVFREP TTISAMELST KQQQLYIGST
401 AGVAQLPLHR CDIYGKACAE CCLARDPYCA WDGSSCSRYF PTAKRRTRRQ
451 DIRNGDPLTH CSDLQHHDNH HGPSLEERII YGVENSSTFL ECSPKSQRAL
501 VYWQFQRRNE DRKEEIKMGD HIIRTEQGLL LRSLQKDSG NYLCHAVEHG
551 FMQTLKVTL EVIDTEHLEE LLHKDDDG DG SKIKEMSSSM TPSQKVWYRD
601 FMQLINHPNL NTMDEFCEQV WKDRKQRRQ RPGHSQGSSN WKHMQESKK
651 GRNRRTHEFE RAPRSV

HITS AT: 26-33

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:190149

L3 ANSWER 3 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 167941-10-8 REGISTRY

CN Semaphorin I (Tribolium embryo) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 712

SEQ 1 MVVKILVWSI CLIALCHAWM PDSSSKLINH FKSVESKSFT GNATFPDHFI
51 VLNQDETSIL VGGGRNRVYNL SIFDLSERKG GRIDWPSSDA HGQLCILKGK
101 TDDDCQNYIR ILYSSEPGKL VICGTNSYKP LCRTYAFKEG KYLVEKEVEG
=====

151 IGLCPYNPEH NSTSVSYNGQ LFSATVADFS GGDPLIYREP QRTELSDLKQ
201 LNAPNFVNSV AYGYDIFYFFY RETAVEYMNC GKVIYSRVAR VCKDDKGPH
251 QSRDRWTSFL KARLNCSIPG EYPFYFDEIQ STSDIVEGRY NSDDSKIIY
301 GILTPVNAI GGSAICAYQM ADILRVFEGS FKHQETINSN WLPVPQNLVP
351 EPRPGQCVRD SRILPDKNVN FIKTHSLMED VPALFGKPVL VRVSLQYRFT
401 AITVDPQVKT INNQYLDVLY IGTDDGKVLK AVNIPKRHAK ALLYRKYRTS
451 VPHGAPVKQ LKIAPGYGKV VVVGKDEIRL ANLNHCASKT RCKDCVELQD
501 PHCAWDAKQN LCVSIDTVTS YRFILIQDVVR GDDNKCWSPQ TDKKTVIKNK
551 PSEVENEITN SIDEKLDSS DPLIKTGLDD DSDCDPVSEN SIGGCAVRQQ
601 LVIYTGTLH IVVVVVSIVG LFSWLYSGLS VFAKFHSDSQ YPEAPFIEQH
651 NHLERLSANQ TGYLTPRANK AVNLVVKVSS STPRPKDNL DVSKDLNIAS
701 DGTLQKIKKT YI

HITS AT: 123-130

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 4 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 167821-11-6 REGISTRY

CN Semaphorin II (Drosophila melanogaster) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 724

SEQ 1 MSLLQLSPLL ALLLLLCSV SETAADYENT WNFYYERPCC TGNDQGNNNY

51 GKHGADHVRE FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSN
101 CNRDAINLEP TRDDVVSCVS KGKSQIFDCK NHVRVIQSMD QGDRLYVCGT
=====
151 NAHNPKDYVI YANLTHLPRS EYVIGVGLGI AKCPYDPLDN STAIYVENGN
=====
201 PGGLPGLYSG TNAEFTKADT VIFRTDLYNT SAKRLEYKFK RTLKYDSKWL
251 DKPNFVGSFD IGEYVYFFFR ETAVEYINCG KAVYSRIARV CKKDVGKGKNL
301 LAHNWATYLK ARLNCSISGE FPFYFNEIQS VYQLPSDKSR FFATFTTSTN
351 GLIGSAVCSF HINEIQAAFN GKFKEQSSSN SAWLPVLNSR VPEPRPGTCV
401 NDTSNLPDTV LNFIRSHPLM DKAVNHEHNN PVYYKRDLVF TKLVVDKIRI
451 DILNQEYIVY YVGTNLGRIY KIVQYYRNGE SLSKLLDIFE VAPNEAIQVM
501 EISQTRKSLY IGDHRIKQI DLAMCNRRYD NCFRCVRDPY CGWDKEANTC
551 RPYELDLLQD VANETSDICD SSVLKKKIVV TYGQSVHLGC FVKIPEVLKN
601 EQVTWYHHSK DKGRYEIRYS PTKYIETTER GLVVVSVNEA DGGRYDCHLG
651 GSLLCSYNIT VDAHRCCTPPN KSNDYQKIYS DWCHEFEKYK TAMKSWEKKQ
701 GQCSTRQNFS CNQHPNEIFR KPNV

HITS AT: 148-155

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 5 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 167821-09-2 REGISTRY

CN Semaphorin I (Drosophila melanogaster C-terminal fragment) (9CI)
(CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 650

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ

=====

51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
101 NAPNFVSSFT QGDFVYFFFR ETAVEFINCG KAIYSRVARV CKWDKGPHR
151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVIEEI
351 DVLTKEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEQKG FRNDMDLLDS RRQSKDQEII DNIDKNFEDI
501 INAQYTVEL VMAVLAGSIF SLLVGGFTGY FCGRRCCHKDE DDNLPPDPTE
551 YEYFEQRQNV NSFPSSCRIQ QEPKLLPQVE EVTYADAVLL PQPPPNNKMH
601 SPKNTLRKPP MHQMHQGPNS ETLFQFHVTA TTPSSRIVVA TTSEHCVPTR

HITS AT: 22-29

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 6 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 167821-07-0 REGISTRY

CN Semaphorin I (grasshopper) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKD

51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
 101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
 ======
 151 EGRGLCPFD P DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
 201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
 251 PHQGGDRWTS FLKSRLNCV PGDYPFYFNE IQSTSIDIIEG NYGGQVEKLI
 301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLV
 351 PEPRPGQCVN DSRTLDPDSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
 401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASF SSDTVDSVVI
 451 EELQLVPPGV PVKNLYVVRM DGDDSKLVVV SDDEILAIKL HRCGSDKITN
 501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
 551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
 601 PNTLAEINHA GS KL PSSQEK LPIYTAETLT IAIVT SCLGA LVVGFISGFL
 651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKA AINLV
 701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 125-132

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 7 OF 15 REGISTRY COPYRIGHT 1995 ACS
 RN 167821-03-6 REGISTRY
 CN Semaphorin III (human) (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE
 SQL 771

SEQ 1 MGWLTRIVCL FWGVLLTARA NYQNGKNNVP RLKLSYKEML ESNNVITFNG
 51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR
 101 DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP
 ======
 151 EDNIFKLENS HFENGGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
 201 IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISESNDNPED DKVYFFFREN
 251 AIDGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
 301 IDTHFDELQD VFLMNFKDPK NPVYGVFTT SSNIFKGSBV CMYSMSDVRR
 351 VFLGPYAH RD GP NYQWV PYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDV
 401 TFARSHPAMY NP VFPMNNRP I VIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
 451 IGTDVGTVLK VVSIPKETWY DLEEVLLEEM TVFREPTAIS AMELSTKQQQ
 501 LYIGSTAGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS ACSRYFPTAK
 551 RRTRRQDIRN GDPLTHCSLD HHDNHGHSP EERIIYGVEN SSTFLECSPK
 601 SQRALVYWFQF QRRNEERKEE IRVDDHIIRT DQGLLLRSLQ QKDSGNYLCH
 651 AVEHGFIQTL LKVTLERVIDT EHLEELLHKD DDGDGSKTKE MSNSMTPSQK
 701 VWYRDFMQLI NHPNLNTMDE FCEQVWKDR KQRRQRPGHT PGNSNKWKHL
 751 QENKKGRNRR THEFERAPRS V

HITS AT: 132-139

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 8 OF 15 REGISTRY COPYRIGHT 1995 ACS
 RN 167679-25-6 REGISTRY
 CN Protein ahv-sema (malignant catarrhal fever virus strain C500
 reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Protein (alcelaphine herpesvirus type 1 semaphorin-like reduced)

FS PROTEIN SEQUENCE

SQL 751

SEQ 1 MAYLNATVSK PVISLLSLSK KVLKFEHCGG EGQCLGLITE FVIHPAAMGT
 51 LCVSIRLLMI LSAITAAKSR FIDKPRLIVN LTDGFGQHRF FGPQEPEHTVL
 101 FHSLNSSDVY VGGNNNTIYLF DFAHSSNAST ALINITSTHN THRLSSTCEN
 151 FITLLLHNQTD GLLACGTNSQ KPSCWLINNL TTQFLGPKLG LAPFSPSSGN
 ===== ==
 201 LVLFDQNDTY STINLYKSLS GSHKFRIAG QVELYTSDETA MHRPQFVQAT
 251 AVHKNESYDD KIYFFFQENS HSDFKQFPHT VPRVGQVCSS DQGGESELLSV
 301 YKWITFLKAR LACVDYDTGR IYNELQDIFI WQAPENSWEET TLIYGLFLSP
 351 WNFSAVCVFT VKDIDHVFKT SKLKNYHHKL PTPRPGQCMK NHQHVPTETF
 401 QVADRYPEVA DPVYQKNNAM FPIIQSKYIY TKLLVYRVEY GGVFWATIFY
 451 LTTIKGTHIHI YVRYEDSNST TALNILEINP FQKPAPIQNI LLDNTNLKLY
 501 VNSEWEVSEV PLDLCSVYGN DCFSCFMSRD PLCTWYNNTC SFKQRVSVET
 551 GGPANRTLSE MCGDHYAPTV VKHQVSIPLL SNSYLSCPAV SNHADYFWTK
 601 DGFTEKRCHV KTHKNDCILL IANSTTATNG THVCNMKEDS VTVKLLEVNV
 651 TLMEELLHDK DGDGSKTKE MSNSMTPSQK VVYRDFMQLI NHPNLNTMDE
 701 FCEQVWKRDR KQRRQRPGHT PGNSNKWKHL QENKKGRNRR THEFERAPRS
 751 V

HITS AT: 165-172

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 9 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 167470-95-3 REGISTRY

CN Collapsin-2 (chicken brain) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 761

SEQ 1 MRASQVPNAC SLLSLAMLFF PVTGTSKQNI PRLKLSYKDL LLSNSCIPFL
 51 GSTEGLDFRT LLLDEERGRL LVGAKDHIFL LNLVDLNKNV KKIYWPAAKE
 101 KMELCKLAGK DAHTDCANFI RVLQPYNRTH VYVCGTGAFH PLCGYIELGT
 ===== =
 151 HKEETIFRLD TQNLESGRLK CPFDPQQPFA SVMADELYYA GTASDFLGKD
 201 TALTRSLGPS HDHHYIRTDI SEHYWLTGAK FIATFPPIPDT YNPDDDKIYF
 251 FFREISQDSS TSDKTILSRV GRVCKNDMGG QRSLINKWTT FLKARLVCSI
 301 PGPEGADTHF DELQDIFLLS TRDERNPLVY GVFTTTSSVF KGSACVYSM
 351 ADIRAVFNGP YAHKESADHR WVQYEGRIPY PRPGTCPSKT YDPLIKSTRD
 401 FPDEVISFIK RHPLMYKSVY PLTGGPVFTR INVVDYRLTQI VVDHVMAEDG
 451 QYDVIFLGTD IGTVLKAVSI TKEKWTKEEV VLEELQIFKH PSFISTMEIS
 501 QKQQQLYIGS RDGLVQLSLH RCHTYKGACA DCCLARDPYC AWDGNSCSRY
 551 APTSKRRARR QDVKYGDPVA QCWDVEDSIS HETADEKVIF GIEFNSTFLE
 601 CIPKSQQASI RWYIQRSGEE HREELKADER IIKTEHGLLI RSLQRRDAGA
 651 YFCKAQEHTF IHTIVKLNLN VIENGQMEST QKTEDEEGRV RDLLTESRLR
 701 YKDYIQLVSS PSFSLDEYCE QMWHREREKRRQ RNKGGAKWKH VQEMKKRNR
 751 RHHEPARPPS T

HITS AT: 134-141

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 10 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 153551-68-9 REGISTRY
CN Semaphorin III (human precursor reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin III (human precursor reduced)
FS PROTEIN SEQUENCE
SQL 575

SEQ 1 MGWLTRIVCL FWGVLLTARA NYQNGKNNVP RLKLSYKEML ESNNVITFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR
101 DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP
=====

151 EDNIFKLENS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
201 IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISESNDNPED DKVYFFFREN
251 AIDGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFKLAR LICSVPGPNG
301 IDTHFDELQD VFLMNFKDPK NPVVYGVFTT SSNIKFGSAV CMYSMSDVRR
351 VFLGPYAHRD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
401 TFARSHPAMY NPVFPMNNRP IVIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDVGTVLK VVSIPKETWY DLEEVLLEEM TVFREPTAIS AMELSTKQQQ
501 LYIGSTAGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS ACSRYFPTAK
551 RRTRRQDIRN GDPLTHCSDL HHDNH

HITS AT: 132-139
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L3 ANSWER 11 OF 15 REGISTRY COPYRIGHT 1995 ACS
RN 153551-67-8 REGISTRY
CN Semaphorin II (Drosophila melanogaster precursor reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin II (Drosophila melanogaster precursor reduced)
FS PROTEIN SEQUENCE
SQL 706

SEQ 1 MSLLQLSPLL ALLLLCSSV SETAADYENT WNFYYERPCC TGNDQGNNNY
51 GKHGADHVRE FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSSN
101 CNRDAINLED CKNHVRVIQS MDQGDRLYVC GTNAHNPKDY VIYANLTHLP
=====

151 RSEYVIGVGL GIAKCPYDPL DNSTAIYVEN GNPGGLPGLY SGTNAEFTKA
201 DTVIFRTDLY NTSAKRLEYK FKRTLKYDSK WLDKPNFVGS FDIGEYVYFF
251 FRETAVEYIN CGKAVYSRIA RVCKKDVGKG NLLAHNWATY LKARLNCSIS
301 GEFPFYFNEI QSVYQLPSDK SRFFATFTTS TNGLIGSAVC SFHINEIQAA
351 FNGKFKEQSS SNSAWLPVLN SRVPEPRPGT CVNNTSNEPD TVLNFIRSHP
401 LMDKAVNHEH NNPVYYKRDL VFTKLVVDKI RIDILNQEYI VYYVGTNLGR
451 IYKIVQYYRN GESLSKLLDI FEVAPNEAIQ VMEISQTRKS LYIGTDHRIK
501 QIDLAMCNRR YDNCFRCVRD PYCGWDKEAN TCRPYELDLL QDVANETSDI
551 CDSSVLKKKI VVTYQGSVHL GCFVKIPEVL KNEQVTWYHH SKDKGRYEIR
601 YSPTKYIETT ERGLVVVSVN EADGGRYDCH LGGSLLCSYN ITVDAHRCTP
651 PNKSNDYQKI YSDWCHEFEK YKTAMKSWEK KQGQCSTRQN FSCNQHPNEI
701 FRKPNV

HITS AT: 130-137
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L3 ANSWER 12 OF 15 REGISTRY COPYRIGHT 1995 ACS
RN 153551-66-7 REGISTRY
CN Semaphorin I (Drosophila melanogaster C-terminal fragment reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin I (Drosophila melanogaster C-terminal fragment reduced)
FS PROTEIN SEQUENCE
SQL 656

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
=====

51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
101 NAPNFVSSFT QGDFVYFFF R ETAVEFINCG KAIYSRVARV CKWDKG
151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVIEE
351 DVLTKSEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEGKG FRNDMDLLDS RRQSKDQEII DNIDKNFEGP
501 QTSADIINAQ YTVELVMAV LAGSIFSLLV GFFTGYFCGR RCHKDEDDNL
551 PYPDTEYEYF EQRQNVNSFP SSCRIQQEPK LLPQVEEVTY AEPVLLPQPP
601 PPNKMHSPKN TLRKPPMHQM HQGPNSETLF QFHVTATTPS SRIVVATTSE
651 HCVPTR

HITS AT: 22-29
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L3 ANSWER 13 OF 15 REGISTRY COPYRIGHT 1995 ACS
RN 153551-65-6 REGISTRY
CN Semaphorin (Tribolium confusum precursor reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin (Tribolium confusum precursor reduced)
FS PROTEIN SEQUENCE
SQL 710

SEQ 1 MVVKILVWSI CLIALCHAWM PDSSSKLINH FKSVESKSFT GNATFPDHFI
51 VLNQDETSIL VGGNRVYNL SIFDLSERKG GRIDWPSSDA HGQLCILKGK
101 TDDDCQNYIR ILYSSEPGKL VICGTNSYKP LCRTYAFKEG KYLVEKEVEG
=====

151 IGLCPYNPEH NSTSVSYNGQ LFSATVADFS GGDPLIYREP QRTELSDLKQ
201 LNAPNFVNSV AYGDYIFFY RETAVEYMN C GKVIYSRVAR VCKDDKG
251 QSRDRWTSFL KARLNCSIPG EYPFYFDEIQ STSDIVEGRY NSDDSKIIYG
301 ILTTPVNAIG GSAICAYQMA DILRVFEGSF KHQETINSNW LPVPQNLVPE
351 PRPGQCVRDS RILPDKNVNF IKTHSLMEDV PALFGKPVLV RVSLQYRFTA
401 ITVDPQVKTI NNQYLDVLYI GTDDGKVLKA VNIPKRHAKA LLYRKYRTSV
451 HPHGAPVKQL KIAPGYGKVV VVGKDEIRLA NLNHCASKTR CKDCVELQDP
501 HCAWDAKQNL CVSIDTVTSY RFLLIQDVVRG DDNKCWSPQT DKKTVIKNKP

551 SEVENEITNS IDEKLDSSDP LIKTGLDDDS DCDPVSENSI GGCAVRQQLV
601 IYTAGTLHIV VVVVSIVGLF SWLYSGLSVF AKFHSDSQYP EAPFIEQHNH
651 LERLSANQTG YLTPRANKAV NLVVVKVSSST PRPKKDNLDV SKDLNIA SDG
701 TLQKIKKTYI

HITS AT: 123-130

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L3 ANSWER 14 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 151769-96-9 REGISTRY

CN Collapsin (chicken brain precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Collapsin (chick brain precursor)

FS PROTEIN SEQUENCE

SQL 772

SEQ 1 MGWLRLGIALL SLGVLLLAGRV NCQHVKNVP RLKLSYKEML ESNNIVNFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF NLVNIKEYQK IVWPVSHSRR
101 DECKWAGKDI LRECANFIKV LKTYNQTHLY ACGTGAFHPM CTYIEVGSHP
=====

151 EDNIFRMEDS HFENGRGKSP YDPKLLTASL LVDGELYSGT AADFMGRDFA
201 IFRTLGHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKIYFFFREN
251 AIDGEHTGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
301 IDTHFDELQD VFLMNSKDPK NPIVYGVFTT SSNIFKGSAV CMYSMTDVRR
351 VFLGPYAH RD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPEVI
401 TFARSHPAMY NPVFPINSRP IMIKTDVDYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDIGTVLK VVSIPKETWH ELEEVVLEEM TVFREPTVIS AMKISTKQQQ
501 LYIGSATGVS QLPLHRCDVY GKACAECCA RD PYCAWDGS SCSRYFPTAK
551 RRTRRQDIRN GDPLTHCSDL QHHDNPSGQT LEEKIIYGVE NSSTFLECSP
601 KSQRAIVYWQ FQKQNDDHKV EIKVDDRMIR TEQGLLLRSL QRRDSGIYFC
651 HAVEHGFIQT LLKVTLEVID TDHLEELLHK EEDADASKTK DATNSMTPSQ
701 KIWYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRQRPAN AQVNTNKWKH
751 LQENKKGRNR RTHEFERAPR SV

HITS AT: 132-139

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:25804

L3 ANSWER 15 OF 15 REGISTRY COPYRIGHT 1995 ACS

RN 149223-89-2 REGISTRY

CN Fasciclin IV (grasshopper embryo precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin IV (grasshopper embryo gene Fas4)

CN Semaphorin I (grasshopper embryo gene Fas4)

FS PROTEIN SEQUENCE

SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKD

51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
===== ==
151 EGRGLCPFD P DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
251 PHQFGDRWTS FLKSRLNC SV PGDYPFYFNE IQSTSDDIEG NYGGQVEKLI
301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLK
351 PEPRPGQCVN DSRTLPDVSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASFD SSDTVDSVVI
451 EELQVLPPGV PVKNLYVV RM DGDDSKLVVV SDDEILAIKL HRCGSDKITN
501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
601 PNTLAEINHA GS KL PSSQEK LPIYTAETLT IAIVTSC LGA LVVGFISGFL
651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKA AINLV
701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 125-132

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, CAPREVIEWS, MEDLINE

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:91661

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L5 5 FILE CA
L6 3 FILE CAPREVIEWS
L7 8 FILE CAPLUS
L8 0 FILE CAOLD

TOTAL FOR ALL FILES

L9 16 L3

=> dup rem 19
DUPLICATE IS NOT AVAILABLE IN 'CAOLD'. ANSWERS FROM THESE FILES WILL BE
CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L9
L10 8 DUP REM L9 (8 DUPLICATES REMOVED)

=> d 1-8 an .mh

L10 ANSWER 1 OF 8 CApreviews COPYRIGHT 1995 ACS DUPLICATE 1
AN 95:262009 CApreviews
TI semaphorin cDNA cloning and use in the diagnosis and treatment of
neurological disease and as viral pathogenesis inhibitor
SO PCT Int. Appl., 101 pp.
CODEN: PIXXD2
IN Goodman, Corey S.; Kolodkin, Alex L.; Matthes, David; Bentley, David
R.; O'Connor, Timothy
PI WO 9507706 A1 950323
AI WO 94-US10151 940913
PY 1995
AB A novel class of proteins, semaphorins, nucleic acids encoding
semaphorins, semaphorin peptides, and methods of using semaphorins
and semaphorin-encoding nucleic acids are disclosed. Semaphorin
peptides and receptor agonists and antagonists provide potent
modulators of nerve cell growth and regeneration. The invention
provides pharmaceutical compns., methods for screening chem.
libraries for regulators of cell growth/differentiation; semaphorin
gene-derived nucleic acids for use in genetic mapping, as probes for
related genes, and as diagnostic reagents for genetic neurol.
disease; specific cellular and animal systems for the development of
neurol. disease therapy.

L10 ANSWER 2 OF 8 CApreviews COPYRIGHT 1995 ACS DUPLICATE 2
AN 95:394055 CApreviews
TI A family of molecules related to collapsin in the embryonic chick
nervous system
SO Neuron (1995), 14(6), 1131-40
CODEN: NERNET; ISSN: 0896-6273
AU Luo, Yuling; Shepherd, Iain; Li, Jie; Renzi, Michael J.; Chang,
Susannah; Raper, Jonathan A.
PY 1995
AB Signaling mols. with either attractive or repulsive effects on
specific growth cones are likely to play a role in guiding axons to
their appropriate targets. A chick brain glycoprotein, collapsin,
has been shown to be a good candidate for a repulsive guidance cue.
We report here the discovery of four new mols. related to collapsin
in chick brains. All contain a semaphorin domain. One is
structurally very similar to collapsin but is only 50% identical in
its amino acid sequence. We have named it collapsin-2. The
collapsin-related genes exhibit distinct but overlapping patterns of
mRNA expression in the developing spinal cord and the developing
visual system. This family of collapsin-related mols. could
potentially act as repulsive cues toward specific neuronal
populations.

L10 ANSWER 3 OF 8 CApreviews COPYRIGHT 1995 ACS DUPLICATE 3
AN 95:219099 CApreviews
TI Alcelaphine herpesvirus type 1 has a semaphorin-like gene
SO J. Gen. Virol. (1995), 76(4), 1063-7
CODEN: JGVIAY; ISSN: 0022-1317
AU Ensser, Armin; Fleckenstein, Bernhard
PY 1995
AB Alcelaphine herpesvirus type 1, a rhabdovirus causing malignant
catarrhal fever of ruminants, has an 1959 nucleotide open reading
frame with significant homologies to semaphorin genes. While
truncated genes of similar structure have been found in poxviruses,
this is the first known example of a semaphorin-like gene in a
herpesvirus.

L10 ANSWER 4 OF 8 CA COPYRIGHT 1995 ACS DUPLICATE 4
AN 123:190149 CA
TI Semaphorin III can function as a selective chemorepellent to pattern sensory projections in the spinal cord
SO Neuron (1995), 14(5), 949-59
CODEN: NERNET; ISSN: 0896-6273
AU Messersmith, Elizabeth K.; Leonardo, E. David; Shatz, Carla J.; Tessier-Lavigne, Marc; Goodman, Corey S.; Kolodkin, Alex L.
PY 1995
AB Distinct classes of primary sensory neurons in dorsal root ganglia subserve different sensory modalities, terminate in different dorsoventral locations in the spinal cord, and display different neurotropin response profiles. Large diam. muscle afferents that terminate in the ventral spinal cord are neurotropin 3-responsive responsive, whereas small diam. afferents subserving pain and temp. are NGF responsive and terminate in the dorsal spinal cord. Previous in vitro studies showed that the developing ventral spinal cord secretes a diffusible factor that inhibits the growth of sensory axons. Here the authors show that this factor repels NGF-responsive axons but has little effect on neurotropin 3-responsive axons. The authors also provide evidence implicating semaphorin III/collapsin, a diffusible guidance mol. expressed by ventral spinal cord cells, in mediating this effect. These results suggest that semaphorin III functions to pattern sensory projections by selectively repelling axons that normally terminate dorsally.

L10 ANSWER 5 OF 8 CA COPYRIGHT 1995 ACS DUPLICATE 5
AN 123:221278 CA
TI Murine semaphorin D/collapsin is a member of a diverse gene family and creates domains inhibitory for axonal extension
SO Neuron (1995), 14(5), 941-8
CODEN: NERNET; ISSN: 0896-6273
AU Pueschel, Andreas W.; Adams, Ralf H.; Betz, Heinrich
PY 1995
AB Members of the collapsin/semafamily have been proposed to act as growth cone guidance signals in vertebrates and invertebrates. To identify candidate mols. involved in axonal pathfinding during mouse embryogenesis, the authors isolated cDNAs encoding five new members of the semaphorin family (Sem A-Sem E). The murine semaphorin genes are differentially expressed in mesoderm and neuroectoderm before and during the time when axons select their pathways in the embryo. In explant cultures, recombinant Sem D/collapsin converts a matrix permissive for axonal growth into one that is inhibitory for neurites of peripheral ganglia. These data demonstrate that semaphorins are a diverse family of mols. that may provide local signals to specify territories non-accessible for growing axons.

L10 ANSWER 6 OF 8 CA COPYRIGHT 1995 ACS DUPLICATE 6
AN 120:155251 CA
TI The semaphorin genes encode a family of transmembrane and secreted growth cone guidance molecules
SO Cell (Cambridge, Mass.) (1993), 75(7), 1389-99
CODEN: CELLB5; ISSN: 0092-8674
AU Kolodkin, Alex L.; Matthes, David J.; Goodman, Corey S.
PY 1993
AB In addn. to its expression on subsets of axons, grasshopper Semaphorin I (Sema I, previously called Fasciclin [Fas] IV) is expressed on an epithelial stripe in the limb bud, where it functions in the guidance of 2 sensory growth cones as they abruptly

turn upon encountering this sema I boundary. The authors report here on the cloning and characterization of two sema genes in *Drosophila*, one in human, and the identification of two related viral sequences, all of which encode proteins with conserved Semaphorin domains. *Drosophila* sema (D-Sema) I is a transmembrane protein, while D-Sema II and human Sema III are putative secreted proteins that are similar to the recently reported chick collapsin. D-Sema I and D-Sema II are expressed by subsets of neurons and muscles. Genetic anal. in *Drosophila* reveals that semaII is an essential gene that is required for both proper adult behavior and survival.

- L10 ANSWER 7 OF 8 CA COPYRIGHT 1995 ACS DUPLICATE 7
AN 120:25804 CA
TI Collapsin: a protein in brain that induces the collapse and paralysis of neuronal growth cones
SO Cell (Cambridge, Mass.) (1993), 75(2), 217-27
CODEN: CELLB5; ISSN: 0092-8674
AU Luo, Yuling; Raible, David; Raper, Jonathan A.
PY 1993
AB Repulsive guidance cues can steer neuronal growth cones during development and prevent mature axons from regenerating. The authors have identified a 100 kd glycoprotein in the chick brain that is a good candidate for a repulsive cue. Since it induces the collapse and paralysis of neuronal growth cones in vitro, the authors have named it collapsin. It is effective at concns. of .apprx. 10 pM. The C-terminal half of collapsin contains a single Ig-like domain and an addnl. highly basic region. The N-terminal half of collapsin shares significant homol. with fasciclin IV, a growth cone guidance protein in grasshopper. Recombinant collapsin causes sensory ganglion growth cones to collapse but not retinal ganglion cell growth cones. The authors propose that collapsin could serve as a ligand that guides specific growth cones by a motility-inhibiting mechanism.
- L10 ANSWER 8 OF 8 CA COPYRIGHT 1995 ACS DUPLICATE 8
AN 119:91661 CA
TI Fasciclin IV: sequence, expression, and function during growth cone guidance in the grasshopper embryo
SO Neuron (1992), 9(5), 831-45
CODEN: NERNET; ISSN: 0896-6273
AU Kolodkin, Alex L.; Matthes, David J.; O'Connor, Timothy P.; Patel, Nipam H.; Admon, Arie; Bentley, David; Goodman, Corey S.
PY 1992
AB Monoclonal antibody 6F8 was used to characterize and clone fasciclin IV, a new axonal glycoprotein in the grasshopper, and to study its function during growth cone guidance. Fasciclin IV is dynamically expressed on a subset of axon pathways in the developing central nervous system (CNS) and on circumferential bands of epithelial cells in developing limb buds. One of these bands corresponds to the location where the growth cones of the T11 pioneer neurons make a characteristic turn while extending toward the CNS. Embryos cultured in the 6F8 antibody or Fab exhibit aberrant formation of this axon pathway. The cDNA sequence anal. suggests that fasciclin IV has a signal sequence; long extracellular, transmembrane, and short cytoplasmic domains; and shows no homol. with any protein in the available data bases. Thus, fasciclin IV appears to be a novel integral membrane protein that functions in growth cone guidance.

=> fil reg

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DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

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=> s g.[sc]pydp/sqsp
L11      5 G. [SC] PYDP/SQSP

=> d 1-5 sqide can;fil ca,caol,capre,caplus;s l11 not 19

L11 ANSWER 1 OF 5  REGISTRY  COPYRIGHT 1995 ACS
RN 168458-97-7  REGISTRY
CN Semaphorin SemD (mouse) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin SemD (mouse)
FS PROTEIN SEQUENCE
SQL 772

SEQ      1 MGWFTGIACL FWGVLLTARA NYANGKNNVP RLKLSYKEML ESNNVITFNG
        51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF NLVNIKDFQK IVWPVSYTRR
        101 DECKWAGKDI LKECANFIKV LEAYNQTHLY ACGTGAFHPI CTYIEVGHHP
        151 EDNIFKLQDS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
        ====
        201 IFRTLGDHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKVYFFFREN
        251 AIGGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
        301 IDTHFDELQD VFLMNSKDPK NPIVYGVFTT SSNIFKGSAV CMYSMSDVRR
        351 VFLGPYAHRD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
        401 TFGRSHPAMY NPVFPIINRP IMIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
        451 IGTDVGTVLK VVSVPKETWH DLEEVILLEEM TVFREPTTIS AMELSTKQQQ
        501 LYIGSTAGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS SCSRYFPTAK
        551 RRTRRQDIRN GDPLTHCSLD EDHDNHGPS LEERIIYGVE NSSTFLECSP
        601 KSQRALVYWQ FQRRNRRSKR EIRMGDHIIR TEQGLLLRSL QKKDSGNYLC
        651 HAVEHGFMQT LLKVTLEVID TEHLEELLHK DDDGDGSKIK EMSSSMTPSQ
        701 KVVYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRRQRPGH SQGSSNKWKH
        751 MQESKKGRNR RTHEFERAPR SV

HITS AT: 167-173
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS
              1 REFERENCES IN FILE CA (1967 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
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REFERENCE 1: 123:221278

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L11 ANSWER 2 OF 5  REGISTRY  COPYRIGHT 1995 ACS
RN 167974-68-7  REGISTRY
CN Semaphorin III (mouse clone pMSemaIIIA fragment) (9CI) (CA INDEX
NAME)
OTHER NAMES:
CN Collapsin (mouse clone pMSemaIIIA fragment)
FS PROTEIN SEQUENCE
```

SQL 666

SEQ 1 GKDILKECAN FIKVLEAYNQ THLYACGTGA FHPICTYIEV GHHPEDNIFK
51 LQDSHFENGR GKSPYDPKLL TASLLIDGEL YSGTAANFMG RDFAIFRTL
=====

101 HHHPIRTEQH DSRWLNDPRF ISAHLIPESD NPEDDKVYFF FRENAIDGEH
151 SGKATHARIG QICKNDFGGH RSLVNWKTTF LKARLICCSV GPNGIDTHFD
201 ELQDVFLMNS KDPKNPIVYG VFTTSSNIFK GSAVCMSYSMS DVRRVLLGPY
251 AHRDGPNYQW VPYQGRVPYP RPGTCPSKTF GGFNSTKDL DDVITFARSH
301 PAMYNPVFPI NNRPIMIKTD VNYQFTQIVV DRVDAEDGQY DVMFIGTDVG
351 TVLKVVSVPK ETWHDLEEVL LEEMTVFREP TTISAMELST KQQQLYIGST
401 AGVAQLPLHR CDIYGKACAE CCLARDPYCA WDGS SCRYF PTAKRRTRRQ
451 DIRNGDPLTH CSDLQHHDNH HGPSLEERII YGVENSSTFL ECSPKSQRAL
501 VYWQFQRRNE DRKEEIKMGD HIRTEQGLL LRSLQKKDSG NYLCHAVEHG
551 FMQTLLKVTL EVIDTEHLEE LLHKDDDGDG SKIEMSSSM TPSQKVWYRD
601 FMQLINHPNL NTMDEFCEQV WKDRRKQRRQ RPGHSQGSSN KWKHMQESKK
651 GRNRRRTHEFE RAPRSV

HITS AT: 61-67

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:190149

L11 ANSWER 3 OF 5 REGISTRY COPYRIGHT 1995 ACS
RN 167821-03-6 REGISTRY
CN Semaphorin III (human) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 771

SEQ 1 MGWLTRIVCL FWGVLLTARA NYQNGKNNVP RLKLSYKEML ESNNVITFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR
101 DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP
151 EDNIFKLENS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
=====

201 IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISEDNPED DKVYFFFREN
251 AIDGEHSGKA THARIQICK NDFGGHRSRV NKWTTFKLAR LICSVPGPNG
301 IDTHFDELQD VFLMNFKDPK NPVYVGFTT SSNIKGSAV CMYSMSDVRR
351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
401 TFARSHPAMY NPVFPMMNRP IVIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDVGTVLK VVSIPKETWY DLEEVLLLEM TVFREPTAIS AMELSTKQQQ
501 LYIGSTAGVA QLPLHRCDIY GKACAECCA RDPYCAWDGS ACSRYFPTAK
551 RRTRRQDIRN GDPLTHCSLD HHDNHHGHSP EERIIYGVEN SSTFLECSPK
601 SQRALVYWFQF QRRNEERKEE IRVDDHIIRT DQGLLLRSLQ QKDSGNYLCH
651 AVEHGFQITL LKVTLLEVDT EHLEELLHKD DDGDGSKTKE MSNSMTPSOK
701 VWYRDFMQLI NHPNLNTMDE FCEQVWKDR KQRRQRPGHT PGNSNKWKHL
751 QENKKGRNRR THEFERAPRS V

HITS AT: 167-173

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L11 ANSWER 4 OF 5 REGISTRY COPYRIGHT 1995 ACS
RN 153551-68-9 REGISTRY

CN Semaphorin III (human precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin III (human precursor reduced)

FS PROTEIN SEQUENCE

SQL 575

SEQ 1 MGWLTRIVCL FWGVLLTARA NYQNGKNNVP RLKLSYKEML ESNNVITFNG
 51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR
 101 DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP
 151 EDNIFKLENS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
 ====
 201 IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISESNDNPED DKVYFFFREN
 251 AIDGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
 301 IDTHFDELQD VFLMNFKDPK NPVYVGFTT SSNIFKGSAV CMYSMSDVRR
 351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
 401 TFARSHPAMY NPVFPMNNRP IIVIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
 451 IGTDVGTVLK VVSIPKETWY DLEEVLLEEM TVFREPTAIS AMELSTKQQQ
 501 LYIGSATGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS ACSRYFPTAK
 551 RRTRRQDIRN GDPLTHCSDL HHDNH

HITS AT: 167-173

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L11 ANSWER 5 OF 5 REGISTRY COPYRIGHT 1995 ACS

RN 151769-96-9 REGISTRY

CN Collapsin (chicken brain precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Collapsin (chick brain precursor)

FS PROTEIN SEQUENCE

SQL 772

SEQ 1 MGWLRIALL SLGVLLAGRV NCQHVKNMVP RLKLSYKEML ESNNIVNFNG
 51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF NLVNIKEYQK IVWPVSHSRR
 101 DECKWAGKDI LRECANFIKV LKTYNQTHLY ACGTGAFHPM CTYIEVGSHP
 151 EDNIFRMEDS HFENGRGKSP YDPKLLTASL LVDGELYSGT AADFMGRDFA
 ====
 201 IFRTLGHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKIYFFFREN
 251 AIDGEHTGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
 301 IDTHFDELQD VFLMNSKDPK NPVYVGFTT SSNIFKGSAV CMYSMTDVRR
 351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDEV
 401 TFARSHPAMY NPVFPIINSRP IMIKTDVSYQ FTQIVVDRVD AEDGQYDVMF
 451 IGTDIGTVLK VVSIPKETWH ELEEVLLEEM TVFREPTVIS AMKISTKQQQ
 501 LYIGSATGVS QLPLHRCDVY GKACAECCLA RDPYCAWDGS SCSRYFPTAK
 551 RRTRRQDIRN GDPLTHCSDL QHHDNPSGQT LEEKIIYGVE NSSTFLECSP
 601 KSQRAIVYWQ FQKQNDDHKV EIKVDDRMIR TEQGLLLRSL QRDRSGIYFC
 651 HAVEHGFIQT LLKVTLEVID TDHLEELLHK EEDADASKTK DATNSMTPSQ
 701 KIWYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRQRQPAN AQVNTNKWKH
 751 LQENKKGRNR RTHEFERAPR SV

HITS AT: 167-173

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:25804

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L12 0 FILE CA
L13 0 FILE CAOLD
L14 0 FILE CAPREVIEWS
L15 0 FILE CAPLUS

TOTAL FOR ALL FILES
L16 0 L11 NOT L9

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DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

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=> s lysgt[vna]a/sqsp
L17 9 LYSGT[VNA]A/SQSP

=> d 1-9 sqide can;fil ca,caol,capre,caplu;s l17 not (l11 or 19)

L17 ANSWER 1 OF 9 REGISTRY COPYRIGHT 1995 ACS
RN 168458-97-7 REGISTRY
CN Semaphorin SemD (mouse) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin SemD (mouse)
FS PROTEIN SEQUENCE
SQL 772

SEQ 1 MGWFTGIACL FWGVLLTARA NYANGKNNVP RLKLSYKEML ESNNVITFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHFQK NLVNIKDFQK IVWPVSYTRR
101 DECKWAGKDI LKECANFIKV LEAYNQTHLY ACGTGAFHPI CTYIEVGHHP

151 EDNIFKLQDS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
===== ==
201 IFRTLGDHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKVYFFFREN
251 AIGGEHSGKA THARIGQICK NDFGGHRSRV NKWTTFLKAR LICSVPGPNG
301 IDTHFDELQD VFLMNSKDPK NPIVYGVFTT SSNIFKGSAV CMYSMSDVRR
351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
401 TFGRSHPAMY NPVFPINNRP IMIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDVGTVLK VVSVPKETWH DLEEVILLEEM TVFREPTTIS AMELSTKQQQ
501 LYIGSTAGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS SCSRYFPTAK
551 RRTRRQDIRN GDPLTHCSLD EDHDNHGPGS LEERIIYGVE NSSTFLECSP
601 KSQRALVYWQ FQRRNRRSKR EIRMGDHIIIR TEQGLLRSL QKKDSGNYLC
651 HAVEHGFMQT LLKVTLEVID TEHLEELLHK DDDGDGSKIK EMSSSMTPSQ
701 KVWYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRRQRPGH SQGSSNKWKH
751 MQESKKGRNR RTHEFERAPR SV

HITS AT: 186-192

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:221278

L17 ANSWER 2 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 167974-68-7 REGISTRY

CN Semaphorin III (mouse clone pMSemaIIIA fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Collapsin (mouse clone pMSemaIIIA fragment)

FS PROTEIN SEQUENCE

SQL 666

SEQ 1 GKDILKECAN FIKVLEAYNQ THLYACGTGA FHPICTYIEV GHHPEDNIFK
51 LQDSHFENGR GKSPYDPKLL TASLLIDGEL YSGTAANFMG RDFAIFRTL
= =====

101 HHHPIRTEQH DSRWLNDPRF ISAHLIPESD NPEDDKVYFF FRENAIDGEH
151 SGKATHARIG QICKNDFGGH RSLVNWKTTF LKARLICSVP GPNGIDTHFD
201 ELQDVFLMNS KDPKNPIVYQ VFTTSSNIFK GSAVCMSMS DVRRVLLGPY
251 AHRDGPNYQW VPYQGRVPYP RPGTCPSKTF GGFNSTKDL P DDVITFARSH
301 PAMYNPVFPI NNRPIMIKTD VNYQFTQIVV DRVDAEDQY DVMFIGTDVG
351 TVLKVVSVPK ETWHDLEEV L EEMTVFREP TTISAMELST KQQQLYIGST
401 AGVAQLPLHR CDIYGKACAE CCLARDPYCA WDGSSCSRPF PTAKRRTRRQ
451 DIRNGDPLTH CSDLQHHDNH HGPSLEERII YGVENSSTFL ECSPKSQRAL
501 VYWQFQRRNE DRKEEIKMGD HIIRTEQGLL LRSLQKDSG NYLCHAVEHG
551 FMQTLKVTL EVIDTEHLEE LLHKDDDGDG SKIKEMSSSM TPSQKVWYRD
601 FMQLINHPNL NTMDEFCEQV WKDRKQRRQ RPGHSQGSSN KWKHMQESKK
651 GRNRRTHEFE RAPRSV

HITS AT: 80-86

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:190149

L17 ANSWER 3 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 167821-11-6 REGISTRY

CN Semaphorin II (Drosophila melanogaster) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 724

SEQ 1 MSLLQLSPLL ALLLLCSSV SETAADYENT WNFYYERPCC TGNDQGNNNY
 51 GKHGADHvre FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSSN
 101 CNRDAINLEP TRDDVVSCVS KGKSQIFDCK NHVRVIQSMD QGDRLYVCgt
 151 NAHNPKDYVI YANLTHLPRS EYVIGVGLGI AKCPYDPLDN STAIYVENGN
 201 PGGLPGLYSG TNAEFTKADT VIFRTDLYNT SAKRLEYKFK RTLKYDSKWL
 ====
 251 DKPNFVGSFD IGEYVYFFFR ETAVEYINCG KAVYSRIARV CKKDVGKGNL
 301 LAHNWATYLK ARLNCSISGE FPFYFNEIQS VYQLPSDKSR FFATFTTSTN
351 GLIGSAVCSF HINEIQAAFN GKFKEQSSSN SAWLPVLNSR VPEPRPGTCV
401 NDTSNLPDTV LNFIRSHPLM DKAVNHEHNN PVYYKRDLVF TKLVVDKIRI
451 DILNQEYIVY YVGTNLGRIY KIVQYYRNGE SLSKLDDIFE VAPNEAIQVM
501 EISQTRKSLY IGTDHRIKQI DLAMCNRRYD NCFRCVRDPY CGWDKEANTC
551 RPYELDLLQD VANETSDICD SSVLKKKIVV TYGQSVHLGC FVKIPEVLKN
601 EQVTWYHHSK DKGRYEIRYS PTKYIETTER GLVVVSVNEA DGGRYDCHLG
651 GSLLCSYNIT VDAHRCTPPN KSNDYQKIYS DWCHEFEKYK TAMKSWEKKQ
701 GQCSTRQNFS CNQHPNEIFR KPNV

HITS AT: 207-213

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L17 ANSWER 4 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 167821-09-2 REGISTRY

CN Semaphorin I (Drosophila melanogaster C-terminal fragment) (9CI)
(CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 650

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
 51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
 =====
 101 NAPNFVSSFT QGDFVYFFFR ETAVEFINCG KAIYSRVARV CKWDKGPHR
 151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVI
351 DVLTKEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEQKG FRNDMDLLDS RRQSKDQEII DNIDKNFEDI
501 INAQYTVEL VMAVLAGSIF SLLVGGFTGY FCGRRCHKDE DDNLPPDTE
551 YEYFEQRQNV NSFPSSCRIQ QEPKLLPQVE EVTYADAVLL PQPPPPNKMH
601 SPKNTLRKPP MHQMHQGPNS ETLFQFHVTA TTPSSRIVVA TTSEHCVPTR

HITS AT: 70-76

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L17 ANSWER 5 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 167821-03-6 REGISTRY

CN Semaphorin III (human) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE
SQL 771

SEQ 1 MGWLTRIVCL FWGVLLTARA NYQNGKNNVP RLKLSYKEML ESNNVITFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR
101 DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP
151 EDNIFKLENS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
===== ==
201 IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISESNDNPED DKVYFFFREN
251 AIDGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
301 IDTHFDELQD VFLMNFKDPK NPVYVGFTT SSNIFKGSAV CMYSMSDVRR
351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
401 TFARSHPAMY NPVFPMMNRP IIVIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDVGTVLK VVSIPKETWY DLEEVILLEEM TVFREPTAIS AMELSTKQQQ
501 LYIGSTAGVA QLPLHRCIY GKACAECCLA RDGYCAWDGS ACSRYFPTAK
551 RRTRRQDIRN GDPLTHCSLD HHDNHGHSP EERIIYGVEN SSTFLECSPLK
601 SQRALVYWFQF QRRNEERKEE IRVDDHIIRT DQGLLLRSLQ QKDSGNYLCH
651 AVEHGFIQTL LKVTLEVDT EHLEELLHKD DDGDGSKTKE MSNSMTPSOK
701 VWYRDFMQLI NHPNLNTMDE FCEQVWKDR KQRQRPGHT PGNSNKWKHL
751 QENKKGRNRR THEFERAPRS V

HITS AT: 186-192

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L17 ANSWER 6 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 153551-68-9 REGISTRY

CN Semaphorin III (human precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin III (human precursor reduced)

FS PROTEIN SEQUENCE

SQL 575

SEQ 1 MGWLTRIVCL FWGVLLTARA NYQNGKNNVP RLKLSYKEML ESNNVITFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR
101 DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP
151 EDNIFKLENS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA
===== ==
201 IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISESNDNPED DKVYFFFREN
251 AIDGEHSGKA THARIGQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
301 IDTHFDELQD VFLMNFKDPK NPVYVGFTT SSNIFKGSAV CMYSMSDVRR
351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPPDDVI
401 TFARSHPAMY NPVFPMMNRP IIVIKTDVNYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDVGTVLK VVSIPKETWY DLEEVILLEEM TVFREPTAIS AMELSTKQQQ
501 LYIGSTAGVA QLPLHRCIY GKACAECCLA RDGYCAWDGS ACSRYFPTAK
551 RRTRRQDIRN GDPLTHCSLD HHDNH

HITS AT: 186-192

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L17 ANSWER 7 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 153551-67-8 REGISTRY
CN Semaphorin II (Drosophila melanogaster precursor reduced) (9CI) (CA
INDEX NAME)

OTHER NAMES:

CN Fasciclin II (Drosophila melanogaster precursor reduced)

FS PROTEIN SEQUENCE

SQL 706

SEQ 1 MSLLQLSPPLL ALLLLLCSV SETAADYENT WNFYYERPCC TGNDQGNNNY
51 GKHGADHvre FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSSN
101 CNRDRAINLED CKNHVRVIQS MDQGDRLYVC GTNAHNPKDY VIYANLTHLP
151 RSEYVIGVGL GIAKCPYDPL DNSTAIYVEN GNPGGLPGLY SGTNAEFTKA
= =====
201 DTVIFRTDLY NTSAKRLEYK FKRTLKYDSK WLDKPNFVGS FDIGEYVYFF
251 FRETAVEYIN CGKAVYSRIA RVCKKDVGK NLLAHNWATY LKARLNCSIS
301 GEFPPFYFNEI QSVYQLPSDK SRFFATFTTS TNGLIGSAVC SFHINEIQAA
351 FNGKFKEQSS SNSAWLPVLN SRVPEPRPGT CVNNTSNSLPD TVLFIRSHP
401 LMDKAVNHEH NNPVYYKRDL VFTKLVVVDKI RIDILNQEYI VYYVGTNLGR
451 IYKIVQYYRN GESLSKLLDI FEVAPNEAIQ VMEISQTRKS LYIGTDHRIK
501 QIDLAMCNRR YDNCFRCVRD PYCGWDKEAN TCRPYELDLL QDVANETSDI
551 CDSSVLKKKI VVTYQGSVHL GCFVKIPEVL KNEQVTWYHH SKDKGRYEIR
601 YSPTKYIETT ERGLVVVSVN EADGGRYDCH LGGSLLCSYN ITVDAHRCTP
651 PNKSNDYQKI YSDWCHEFEK YKTAMKSWEK KQGQCSTRQN FSCNQHPNEI
701 FRKPNV

HITS AT: 189-195

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L17 ANSWER 8 OF 9 REGISTRY COPYRIGHT 1995 ACS

RN 153551-66-7 REGISTRY

CN Semaphorin I (Drosophila melanogaster C-terminal fragment reduced)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin I (Drosophila melanogaster C-terminal fragment reduced)

FS PROTEIN SEQUENCE

SQL 656

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
= =====
101 NAPNFVSSFT QGDFVYFFFR ETAVEFINCG KAIYSRVARV CKWDKGPHR
151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVIEEI
351 DVLTKEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEGKG FRNDMDLLDS RRQSKDQEII DNIDKNFEGP
501 QTSADIINAQ YTVETLVMAV LAGSIFSLLV GFFTGYFCGR RCHKDEDDNL
551 PYPDTEYEYF EQRQNVNSFP SSCRIQQEPK LLPQVEVTY AEPVLLPQPP
601 PPNKMHSPKN TLRKPPMHQM HQGPNSETLF QFHVTATTPS SRIVVATTSE
651 HCVPTR

HITS AT: 70-76

MF Unspecified

CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L17 ANSWER 9 OF 9 REGISTRY COPYRIGHT 1995 ACS
RN 151769-96-9 REGISTRY
CN Collapsin (chicken brain precursor reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin (chick brain precursor)
FS PROTEIN SEQUENCE
SQL 772

SEQ 1 MGWLRLGIALL SLGVLLAGRV NCQHVKNVPL RLKLSYKEML ESNNIVNFNG
51 LANSSSYHTF LLDEERSRLY VGAKDHIFSF NLVNIKEYQK IVWPVSHSRR
101 DECKWAGKDI LRECANFIKV LKTYNQTHLY ACGTGAFHPM CTYIEVGSHP
151 EDNIFRMEDS HFENGRGKSP YDPKLLTASL LVDGELYSGT AADFMGRDFA
===== ==
201 IFRTLGHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKIYFFFREN
251 AIDGEHTGKA THARIQICK NDFGGHRSVL NKWTTFLKAR LICSVPGPNG
301 IDTHFDELQD VFLMNSKDPK NPIVYGVFTT SSNIFKGSAV CMYSMTDVRR
351 VFLGPYAHARD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLPEVI
401 TFARSHPAMY NPVFPINSRP IMIKTDVDYQ FTQIVVDRVD AEDGQYDVMF
451 IGTDIGTVLK VVSIPKETWH ELEEVILLEEM TVFREPTVIS AMKISTKQQQ
501 LYIGSATGVS QLPLHRCDVY GKACAECCA RDPYCAWDGS SCSRYFPTAK
551 RRTRRQDIRN GDPLTHCSDL QHHDNPMSGQT LEEKIIYGVE NSSTFLECSP
601 KSQRAIVYWQ FQKQNDDHKV EIKVDDRMIR TEQGLLLRSL QRRDSGIYFC
651 HAVEHGFIQT LLKVTLEVID TDHLEELLHK EEDADASKTK DATNSMTPSQ
701 KIWYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRRQRSPAN AQVNTNKWKH
751 LQENKKGRNR RTHEFERAPR SV

HITS AT: 186-192

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:25804

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L18 0 FILE CA
L19 0 FILE CAOLD
L20 0 FILE CAPREVIEWS
L21 0 FILE CAPLUS

TOTAL FOR ALL FILES

L22 0 L17 NOT (L11 OR L9)

=> fil reg

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STRUCTURE FILE UPDATES: 27 OCT 95 HIGHEST RN 169435-71-6
DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

=> s lnapnfv/sqsp
L23 6 LNAPNFW/SQSP

=> s lnapnfv/sqep
0 LNAPNFW/SQEP
15215 SQL=7
L24 0 LNAPNFW/SQEP
(LNAPNFW/SQEP AND SQL=7)

=> d 1-6 123 sqide can;fil ca,caol,capre,caplus;s 123 not (l11 or l9 or l17)

L23 ANSWER 1 OF 6 REGISTRY COPYRIGHT 1995 ACS
RN 167941-10-8 REGISTRY
CN Semaphorin I (Tribolium embryo) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 712

SEQ 1 MVVKILVWSI CLIALCHAWM PDSSSKLINH FKSVESKSFT GNATFPDHFI
51 VLNQDETSIL VGGGRNRVYNL SIFDLSERKG GRIDWPSSDA HGQLCILKGK
101 TDDDCQNYIR ILYSSEPGKL VICGTONSYKP LCRTYAFKEG KYLVEKEVEG
151 IGLCPYNPEH NSTSVSYNGQ LFSATVADFS GGDPLIYREP QRTELSDLKQ
201 LNAPNFVNSV AYGDYIFFFY RETAVEYMN C GKVIYSRVAR VCKDDKGPH
=====
251 QSRDRWTSFL KARLNCSIPG EYPFYFDEIQ STSDIVEGRY NSDDSKIIY
301 GILTPPVNAI GGSAICAYQM ADILRVFEGS FKHQETINSN WLPVPQNLVP
351 EPRPGQCVRD SRILPDKNVN FIKTHSLMED VPALFGKPVL VRVSLQYRFT
401 AITVDPQVKT INNQYLDVLY IGTDDGKVLK AVNIPKRHAK ALLYRKYRTS
451 VPHHGAPVKQ LKIAPGYGKV VVVGKDEIRL ANLNHCASKT RCKDCVELQD
501 PHCAWDAKQN LCVSIDTVTS YRFILIQDVVR GDDNKCWSPQ TDKKTVIKNK
551 PSEVENEITN SIDEKDLDSS DPLIKTGLDD DSDCDPVSEN SIGGCAVRQQ
601 LVIYTAGTLH IVVVVVSVG LFSWLYSGLS VFAKFHSDSQ YPEAPFIEQH
651 NHLERLSANQ TGYLTPRANK AVNLVVKVSS STPRPKKDNL DVSKDLNIAS
701 DGTLQKIKKT YI

HITS AT: 201-207

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS
 1 REFERENCES IN FILE CAPREVIEWS
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L23 ANSWER 2 OF 6 REGISTRY COPYRIGHT 1995 ACS
 RN 167821-09-2 REGISTRY
 CN Semaphorin I (*Drosophila melanogaster* C-terminal fragment) (9CI)
 (CA INDEX NAME)
 FS PROTEIN SEQUENCE
 SQL 650

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
 51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
 =
 101 NAPNFVSSFT QGDFVYFFF R ETAVEFINCG KAIYSRVARV CKWDKGPHR
 =====
 151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
 201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
 251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
 301 IAVDAQIKTP GGKYTDVIFV GTDHGKIIKS VNAESADSAD KVTSVVIEI
 351 DVLTKSEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
 401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
 451 AACPSGKINS KDANAGEQKG FRNDMDLLDS RRQSKDQEII DNIDKNFEDI
 501 INAQYTVETL VMAVLAGSIF SLLVGFFTGY FCGRRCHKDE DDNLPPYDTE
 551 YEYFEQRQNV NSFPSSCRIQ QEPKLLPQVE EVTYADAVLL PQPPPNKMH
 601 SPKNTLRKPP MHQMHQGPNS ETLFQFHVT A TTPSSRIVVA TTSEHCVPTR

HITS AT: 100-106
 MF Unspecified
 CI MAN
 SR CA

LC STN Files: CAPLUS, CAPREVIEWS
 1 REFERENCES IN FILE CAPREVIEWS
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L23 ANSWER 3 OF 6 REGISTRY COPYRIGHT 1995 ACS
 RN 167821-07-0 REGISTRY
 CN Semaphorin I (grasshopper) (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE
 SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKD
 51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYL
 101 GKSEDDCQNY IRVLAKIDDD RVPLICTNAY KPLCRHYALK DGDYVVEKEY
 151 EGRGLCPFD P DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
 201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
 =====
 251 PHQGGDRWTS FLKSRLNCV PGDYPFYFNE IQSTSIDIEG NYGGQVEKLI
 301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLV
 351 PEPRPGQCVN DSRTLDPDSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
 401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASF D SSDTVDSVVI
 451 EELQLPVG PVKNLYVVRM DGDDSKLVVV SDDEILAICL HRCGSDKITN
 501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
 551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
 601 PNTLAEINHA GSKLPSSQEK LPIYTAETLT IAIVTSLGA LVVGFISGFL
 651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKAALNV
 701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 203-209
 MF Unspecified
 CI MAN
 SR CA

551 SEVENEITNS IDEKLDSSDP LIKTGLDDDS DCDPVSENSI GGCAVRQQLV
601 IYTAGTLHIV VVVSVIVGLF SWLYSGLSVF AKFHSDSQYP EAPFIEQHNH
651 LERLSANQTG YLTPRANKAV NLVVVKVSSST PRPKKDNLDV SKDLNIA SDG
701 TLQKIKKTYI

HITS AT: 201-207

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L23 ANSWER 6 OF 6 REGISTRY COPYRIGHT 1995 ACS

RN 149223-89-2 REGISTRY

CN Fasciclin IV (grasshopper embryo precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin IV (grasshopper embryo gene Fas4)

CN Semaphorin I (grasshopper embryo gene Fas4)

FS PROTEIN SEQUENCE

SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKDH
51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
151 EGRGLCPFDP DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
=====

251 PHQFGDRWTS FLKSRLNCV PGDYPFYFNE IQSTSIDIEG NYGGQVEKLI
301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLK
351 PEPRPGQCVN DSRTLDPVSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASF DSDTVDSVVI
451 EELQVLPPGV PVKNLYVVRM DGDDSKLVVV SDDEILAIKL HRCGSDKITN
501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
601 PNTLAEINHA GSKLPSSQEK LPIYTAETLT IAIVTSCLG A LVVGFISGFL
651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKAIAINLV
701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 203-209

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, CAPREVIEWS, MEDLINE

1 REFERENCES IN FILE CAPREVIEWS

1 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:91661

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L25 0 FILE CA
L26 0 FILE CAOLD
L27 0 FILE CAPREVIEWS
L28 0 FILE CAPLUS

TOTAL FOR ALL FILES
L29 0 L23 NOT (L11 OR L9 OR L17)

=> fil reg
FILE 'REGISTRY' ENTERED AT 12:38:13 ON 02 NOV 95
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DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

=> s [fy]ff[fy]re/sqsp
L30 17 [FY]FF[FY]RE/SQSP

=> s l30 and 5-15/sql
170532 5-15/SQL
L31 1 L30 AND 5-15/SQL

=> d sqide can;fil ca,caol,capre,caplus;s 131

L31 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1995 ACS
RN 166989-97-5 REGISTRY
CN L-Alanine, N-[N2-[N-[N-[N-[N-(N2-L-.alpha.-aspartyl-L-
lysyl)-L-valyl]-L-tyrosyl]-L-phenylalanyl]-L-phenylalanyl]-L-
phenylalanyl]-L-arginyl]-L-.alpha.-glutamyl]-L-asparaginyl]- (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN Collapsin (human 11-amino acid fragment)
FS PROTEIN SEQUENCE
SQL ****11****

SEQ 1 DKVYFFFREN A
=====

HITS AT: 4-9
MF C69 H94 N16 O18
SR CA
LC STN Files: CA, CAPLUS
DES 5:ALL,L

/ Structure 1 in file .gra /

/ Structure 2 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:225934

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FILE 'CAPLUS' ENTERED AT 12:38:58 ON 02 NOV 95
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L32 1 FILE CA
L33 0 FILE CAOLD
L34 0 FILE CAPREVIEWS
L35 1 FILE CAPLUS

TOTAL FOR ALL FILES

L36 2 L31

=> dup rem l36;d an .mh
DUPLICATE IS NOT AVAILABLE IN 'CAOLD'. ANSWERS FROM THESE FILES WILL BE
CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L36
L37 1 DUP REM L36 (1 DUPLICATE REMOVED)

L37 ANSWER 1 OF 1 CA COPYRIGHT 1995 ACS DUPLICATE 1
AN 123:225934 CA
TI Antibodies which bind human collapsin and use for neurite outgrowth
induction and nerve damage treatment
SO U.S., 11 pp.
CODEN: USXXAM
IN Raper, Jonathan A.; Luo, Yuling
PI US 5416197 A 950516
AI US 93-136922 931015
PY 1995
AB Essentially pure human collapsin and its uses are disclosed. An
isolated nucleic acid mol. that comprises a nucleotide sequence that
is complementary to a nucleotide sequence that encodes a portion of
human collapsin is disclosed. Antibodies that specifically bind to

human collapsin and that inhibit its activity are disclosed. Methods of inhibiting the activity of collapsin, methods of inducing neurite outgrowth and methods of treating individuals suffering from nerve damage comprising the step of contacting neuronal cells with nucleic acid mol. that comprises a nucleotide sequence that is complementary to a nucleotide sequence that encodes a portion of human collapsin or comprising the step of contacting a neuronal cell with an antibody that specifically binds to human collapsin are disclosed. Methods of identifying compds. that inhibit the activity of human collapsin comprising the steps of contacting a neuronal cell with human collapsin in the presence of a test compd. are disclosed.

=> fil reg
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TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when conducting SmartSELECT searches.

=> s e[fy]in[cs]gk/sqsp
L38 6 E[FY] IN[CS]GK/SQSP

=> s l38 and 5-15/sql
170532 5-15/SQL
L39 0 L38 AND 5-15/SQL

=> d l38 1-6 sqide can;fil ca,caol,capre,caplus;s 138

L38 ANSWER 1 OF 6 REGISTRY COPYRIGHT 1995 ACS
RN 167821-11-6 REGISTRY
CN Semaphorin II (Drosophila melanogaster) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 724

SEQ 1 MSLLQLSPLL ALLLLCSSV SETAADYENT WNFYYERPCC TGNDQGNNNY
51 GKHGADHVRE FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSSN
101 CNRDRAINLEP TRDDVVSCVS KGKSQIFDCK NHVRVIQSMD QGDRLYVCGT
151 NAHNPKDYVI YANLTHLPRS EYVIGVGLGI AKCPYDPLDN STAIYVENGN
201 PGGLPGLYSG TNAEFTKADT VIFRTDLYNT SAKRLEYKFK RTLKYDSKWL
251 DKPNFVGGSFD IGEYVYFFFR ETAVEYINC KAVYSRIARV CKKDVGKGKL
===== =
301 LAHNWATYLK ARLNCSISGE FPFYFNEIQS VYQLPSDKSR FFATFTTSTN
351 GLIGSAVCSF HINEIQAQFN GKFKEQSSSN SAWLPVLNSR VPEPRPGTCV
401 NDTSNLPDTV LNFIRSHPLM DKAVNHEHNN PVYYKRDLVF TKLVVDKIRI
451 DILNQEYIVY YVGTNLGRIY KIVQYYRNGE SLSKLLDIFE VAPNEAIQVM
501 EISQTRKSLY IGTDHRIKQI DLAMCNRRYD NCFRCVRDPY CGWDKEANTC
551 RPYELDLLQD VANETSDICD SSVLKKKIVV TYGQSVHLGC FVKIPEVLKN
601 EQVTWYHHSK DKGRYEIRYS PTKYIETTER GLVVVSVNEA DGGRYDCHLG
651 GSLLCSYNIT VDAHRCTPPN KSNDYQKIYS DWCHEFEKYK TAMKSWEKKQ
701 GQCSTRQNFS CNQHPNEIFR KPNV

HITS AT: 275-281

MF Unspecified

CI MAN
 SR CA
 LC STN Files: CAPLUS, CAPREVIEWS
 1 REFERENCES IN FILE CAPREVIEWS
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L38 ANSWER 2 OF 6 REGISTRY COPYRIGHT 1995 ACS
 RN 167821-09-2 REGISTRY
 CN Semaphorin I (*Drosophila melanogaster* C-terminal fragment) (9CI)
 (CA INDEX NAME)
 FS PROTEIN SEQUENCE
 SQL 650

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
 51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
 101 NAPNFVSSFT QGDFVYFFF R ETAVEFINCG KAIYSRVARV CKWDKGPPHR
 ===== =
 151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
 201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
 251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
 301 IAVDAQIKTP GGKYDVFIV GTDHGKIIKS VNAESADSAD KVTSVVIEEI
 351 DVLTKSEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRC
 401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
 451 AACPSGKINS KDANAGEQKG FRNDMDLLDS RRQSKDQEII DNIDKNFEDI
 501 INAQYTVEL VMAVLAGSIF SLLVGFFTGY FCGRRCHKDE DDNLPPDTE
 551 YEYFEQRQNV NSFPSSCRIQ QEPKLLPQVE EVTYADAVLL PQPPPNKMH
 601 SPKNTLRKPP MHQMHQGPNS ETLFQFHVTA TTPSSRIVVA TTSEHCVPTR

HITS AT: 125-131
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: CAPLUS, CAPREVIEWS
 1 REFERENCES IN FILE CAPREVIEWS
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L38 ANSWER 3 OF 6 REGISTRY COPYRIGHT 1995 ACS
 RN 167821-07-0 REGISTRY
 CN Semaphorin I (*grasshopper*) (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE
 SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKDH
 51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
 101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
 151 EGRGLCPFDP DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
 201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDGG
 =====
 251 PHQGGDRWTS FLKSRLNCV PGDYPFYFNE IQSTSIDIIEG NYGGQVEKLI
 301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLV
 351 PEPRPGQCVN DSRTLDPDSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
 401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASF SSDTVDSVVI
 451 EELQLPPIGV PVKNLYVVRM DGDDSKLVVV SDDEILAIKL HRCGSDKITN
 501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
 551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
 601 PNTLAEINHA GSKLPSSQEK LPIYTAETLT IAIVTSCLG A LVVGFISGFL
 651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKAAINLV
 701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 228-234
 MF Unspecified
 CI MAN

SR CA
LC STN Files: CAPLUS, CAPREVIEWS
1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L38 ANSWER 4 OF 6 REGISTRY COPYRIGHT 1995 ACS
RN 153551-67-8 REGISTRY
CN Semaphorin II (Drosophila melanogaster precursor reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin II (Drosophila melanogaster precursor reduced)
FS PROTEIN SEQUENCE
SQL 706

SEQ 1 MSLLQLSPLL ALLLLLCSV SETAADYENT WNFYYERPCC TGNDQGNNNY
51 GKHGADHVRE FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSSN
101 CNRDRAINLED CKNHVRVIQS MDQGDRLYVC GTNAHNPKDY VIYANLTHLP
151 RSEYVIGVGL GIAKCPYDPL DNSTAIYVEN GNPGGLPGLY SGTNAEFTKA
201 DTVIFRTDLY NTSAKRLEYK FKRTLKYDSK WLDKPNFVGS FDIGEYVYFF
251 FRETAVEYIN CGKAVYSRIA RVCKKDVGKG NLLAHNWATY LKARLNCSIS
===== ==
301 GEFPFYFNEI QSVYQLPSDK SRFFATFTTS TNGLIGSAVC SFHINEIQAA
351 FNGKFKEQSS SNSAWLPVLN SRVPEPRPGT CVNNTSNLPD TVLNFIRSHP
401 LMDKAVNHEH NNPVYYKRDL VFTKLVVDKI RIDILNQEYI VYYVGTNLGR
451 IYKIVQYYRN GESLSKLLDI FEVAPNEAIQ VMEISQTRKS LYIGTDHRIK
501 QIDLAMCNRR YDNCFRCVRD PYCGWDKEAN TCRPYELDLL QDVANETSDI
551 CDSSVLKKKI VVTYGGQSVHL GCFVKIPEVL KNEQVTWYHH SKDKGRYEIR
601 YSPTKYIETT ERGLVVVSVN EADGGRYDCH LGGSLLCSYN ITVDAHRCTP
651 PNKSNDYQKI YSDWCHEFEK YKTAMKSWEK KQGQCSTRQN FSCNQHPNEI
701 FRKPNV

HITS AT: 257-263

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L38 ANSWER 5 OF 6 REGISTRY COPYRIGHT 1995 ACS
RN 153551-66-7 REGISTRY
CN Semaphorin I (Drosophila melanogaster C-terminal fragment reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:

CN Fasciclin I (Drosophila melanogaster C-terminal fragment reduced)
FS PROTEIN SEQUENCE
SQL 656

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
101 NAPNFVSSFT QGDFVYFFF ETAVEFINCG KAIYSRVARV CKWDKGPHR
===== =
151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVIEEI
351 DVLTKEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEGKG FRNDMDLLDS RRQSKDQEII DNIDKNFEGP

501 QTSADIINAQ YTVETLVMMAV LAGSIFSLLV GFFTGYFCGR RCHKDEDDNL
551 PYPDTEYEYF EQRQNVSFP SSCRIQQEPK LLPQVEEVTY AEPVLLPQPP
601 PPNKMHSPKN TLRKPPMHQM HQGPNSETLF QFHVTATTPS SRIVVATTSE
651 HCVPTR

HITS AT: 125-131

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L38 ANSWER 6 OF 6 REGISTRY COPYRIGHT 1995 ACS

RN 149223-89-2 REGISTRY

CN Fasciclin IV (grasshopper embryo precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin IV (grasshopper embryo gene Fas4)

CN Semaphorin I (grasshopper embryo gene Fas4)

FS PROTEIN SEQUENCE

SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKDH
51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
151 EGRGLCPFDP DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
=====

251 PHQFGDRWTS FLKSRLNCNV PGDYPFYFNE IQSTSDIIEG NYGGQVEKLI
301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLK
351 PEPRPGQCWN DSRTLDPDSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASF SSDTVDSVVI
451 EELQVLPPGV PVKNLYVVRM DGDDSKLVVV SDDEILAIKL HRCGSDKITN
501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
601 PNTLAEINHA GS KL PSSQEK LPIYTAETLT IAI VT SCLGA LVVGFISGFL
651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKAIAINLV
701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 228-234

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, CAPREVIEWS, MEDLINE

1 REFERENCES IN FILE CAPREVIEWS

1 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:91661

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*** YOU HAVE NEW MAIL ***

L40 2 FILE CA
L41 0 FILE CAOLD
L42 1 FILE CAPREVIEWS
L43 3 FILE CAPLUS

TOTAL FOR ALL FILES

L44 6 L38

=> s l44 not (l11 or l9 or l17 or l23)

L45 0 FILE CA
L46 0 FILE CAOLD
L47 0 FILE CAPREVIEWS
L48 0 FILE CAPLUS

TOTAL FOR ALL FILES

L49 0 L44 NOT (L11 OR L9 OR L17 OR L23)

=> fil regg

'REGG' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> s r[v]arvck/sqsp
'SQSP' IS NOT A VALID FIELD CODE
L50 0 FILE CA
'SQSP' IS NOT A VALID FIELD CODE
L51 0 FILE CAOLD
'SQSP' IS NOT A VALID FIELD CODE
L52 0 FILE CAPREVIEWS
'SQSP' IS NOT A VALID FIELD CODE
L53 0 FILE CAPLUS

TOTAL FOR ALL FILES

L54 0 R[VI]ARVCK/SQSP

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:41:00 ON 02 NOV 95
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STRUCTURE FILE UPDATES: 27 OCT 95 HIGHEST RN 169435-71-6
DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when

conducting SmartSELECT searches.

*** YOU HAVE NEW MAIL ***

=> s r[vi]arvck/sqsp

L55 10 R[VI]ARVCK/SQSP

=> d 1-10 sqide can;fil ca,caol,capre,caplu;s 155 not (111 or 19 or 117 or 123 o

L55 ANSWER 1 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 168458-96-6 REGISTRY

CN Semaphorin SemC (mouse) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Collapsin SemC (mouse)

FS PROTEIN SEQUENCE

SQL 782

SEQ 1 EERLIRKFEA ENISNYTALL LSQDGKTLVY GAREALFALN SNLSFLPGGE
51 YQELLWSADA DRKQQCSFKG KDPKRDCQNY IKILLPLNSS HLLTCGTAAF
101 SPLCAYIHI A SFTLAQDEAG NVILEDGKGH CPFDPNFKST ALVVDGELYT
151 GTVSSFQGND PAISRSQSSR PTKTTESSLNW LQDPAFVASA TSPESLGSPI
201 GDDDKIYFFF SETGQEFEFF ENTIVSRVAR VCKGDEGGER VLQQRWTSFL
===== ==
251 KAQLLCRSPD DGFPFNVLQD VFTLNPNPQD WRKTLSIGVF TSQWHRGTTE
301 GSAICVFTMN DVQKAFDGLY KKVNRETQQW YTETHQVPTP RPGACITNSA
351 RERKINSSLQ LPDRVLFNLK DHFLMDGQVR SRLLLLQPRA RYQRVAVHRV
401 PGLHSTYDVL FLGTGDGR LH KAVTLSSRVH IIEELQIFPQ GQPVQNLLLD
451 SHGGLLYASS HSGVVQVPVA NCSLYPTCGD CLLARDPYCA WTGSACRLAS
501 LYQPDLASRP WTQDIEGASV KELCKNSSYK ARFLVPGKPC KQVQIQPNTV
551 NTLACPLL SN LATRLWVHNG APVNASASCR VLPTGDLVV GSQQGLGVFQ
601 CWSIEEGFQQ LVASYCPEVM EEGVMDQKNQ RDGTPVI INT SRVSAPAGGR
651 DSWGADKSYW NEFLVMCTLF VFAMVLLFLF FLYRHRDG MK LFLKQGECAS
701 VHPKTRPIVL PPETRPLNGV GPPSTPLDHR GYQALSDSSP GPRVFTSEK
751 RPLSIQDSFV EVSPVCPRPR VRLGSEIRDS VV

HITS AT: 227-233

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:221278

L55 ANSWER 2 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 167941-10-8 REGISTRY

CN Semaphorin I (Tribolium embryo) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 712

SEQ 1 MVVKILVWSI CLIALCHAWM PDSSSKLINH FKSVESKSFT GNATFPDHFI
51 VLNQDETSIL VGGNRVYNL SIFDLSERKG GRIDWPSSDA HGQLCILKGK
101 TDDDCQNYIR ILYSSEPGKL VICGTONSYKP LCRTYAFKEG KYLVEKEVEG
151 IGLCPYNPEH NSTSVSYNGQ LFSATVADFS GGDPLIYREP QRTELSDLKQ
201 LNAPNFVNSV AYGYIFFFFY RETAVEYMNC GKVIYSRVAR VCKDDKGPH
===== ==
251 QSRDRWTSFL KARLNCSIPG EYPFYFDEIQ STSDIVEGRY NSDDSKIIY
301 GILTPVNAI GGSAICAYQM ADILRVFEGS FKHQETINSN WLPVPQNLVP
351 EPRPGQCVRD SRILPDKNVN FIKTHSLMED VPALFGKPV L VRVSLQYRFT

401 AITVDPQVKT INNQYLDVLY IGTDDGKVLK AVNIPKRHAK ALLYRKYRTS
451 VPHGAPVKQ LKIAPGYGKV VVVGKDEIRL ANLNHCASKT RCKDCVELQD
501 PHCAWDACKQN LCVSIDTVTS YRFLIQDVVR GDDNKCWSPO TDKKTVIKNK
551 PSEVENEITN SIDEKLDSS DPLIKTGLDD DSDCDPVSEN SIGGCAVRQQ
601 LVIYTGTLH IVVVVVSIVG LFSWLYSGLS VFAKFHSDSQ YPEAPFIEQH
651 NHLERLSANQ TGYLTPRANK AVNLVVKVSS STPRPKKDNL DVSKDLNIAS
701 DGTLQKIKKT YI

HITS AT: 237-243

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L55 ANSWER 3 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 167821-11-6 REGISTRY

CN Semaphorin II (Drosophila melanogaster) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 724

SEQ 1 MSLLQLSPLL ALLLLCSSV SETAADYENT WNFYYERPCC TGNDQGNNNY
51 GKHGADHVRE FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSN
101 CNRDAINLEP TRDDVVSCVS KGKSQIFDCK NHVRVIQSMD QGDRLYVCgt
151 NAHNPKDYVI YANLTHLPRS EYVIGVGLGI AKCPYDPLDN STAIYVENGN
201 PGGLPGLYSG TNAEFTKADT VIFRTDLYNT SAKRLEYKFK RTLKYDSKWL
251 DKPNFVGSFD IGEYVYFFFR ETAVEYINCg KAVYSRIARV CKKDVGKGKL
===== ==
301 LAHNWATYLK ARLNCSISGE FPFYFNEIQS VYQLPSDKSR FFATFTTSTN
351 GLIGSAVCSF HINEIQAAFN GKFKEQSSSN SAWLPVLSR VPEPRPGTCV
401 NDTSNLPDTV LNFIRSHPLM DKAVNHEHNN PVYYKRDLFV TKLVVDKIRI
451 DILNQEYIVY YVGTNLGRIY KIVQYYRNge SLSKLLDIFE VAPNEAIQVM
501 EISQTRKSLY IGTDHRIKQI DLAMCNRRYD NCFRCVRDPY CGWDKEANTC
551 RPYELDLLQD VANETSDICD SSVLKKKIVV TYGQSVHLGC FVKIPEVLKN
601 EQVTWYHHSK DKGRYEIRYS PTKYIETTER GLVVVSVNEA DGGRYDCHLG
651 GSLLCSYNIT VDAHRCCTPPN KSNDYQKIYS DWCHEFEKYK TAMKSWEKKQ
701 GQCSTRQNFS CNQHPNEIFR KPNV

HITS AT: 286-292

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L55 ANSWER 4 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 167821-09-2 REGISTRY

CN Semaphorin I (Drosophila melanogaster C-terminal fragment) (9CI)
(CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 650

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
101 NAPNFVSSFT QGDFVYFFFR ETAVEFINCG KAIYSRVARV CKWDKGPHR
===== ==
151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVI

351 DVLTKSEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEQKG FRNDMDLLDS RRQSKDQEII DNIDKNFEDI
501 INAQYTVETL VMAVLAGSIF SLLVGFFTGY FCGRRCHKDE DDNLPPDTE
551 YEYFEQRQNV NSFPSSCRIQ QEPKLLPQVE EVTYADAVLL PQPPPNNKMH
601 SPKNTLRKPP MHQMHQGPNS ETLFQFHVT A TTPSSRIVVA TTSEHCVPTR

HITS AT: 136-142

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS

1 REFERENCES IN FILE CAPPLUS (1967 TO DATE)

L55 ANSWER 5 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 167821-07-0 REGISTRY

CN Semaphorin I (grasshopper) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKD
51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
151 EGRGLCPFD P DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
201 KQLNAPNFVN TMEYNDIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
=====

251 PHQGGDRWTS FLKSRLNCSV PGDYPFYFNE IQSTSIDIEG NYGGQVEKLI
301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLV
351 PEPRPGQCVN DSRTLDPDSV NFVKSHTLMD EA VPAFFTRP ILIRISLQYR
401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASFD SSDTVDSVVI
451 EELQVLPPGV PVKNLYVVRM DGDDSKLVVV SDDEILAICL HRCGSDKITN
501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
601 PNTLAEINHA GS KLPSQS EK LPIYTAETLT IAI VTSCLGA LVVGFISGFL
651 FSRRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKA AINLV
701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 239-245

MF Unspecified

CI MAN

SR CA

LC STN Files: CAPPLUS, CAPREVIEWS

1 REFERENCES IN FILE CAPREVIEWS

1 REFERENCES IN FILE CAPPLUS (1967 TO DATE)

L55 ANSWER 6 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 167470-97-5 REGISTRY

CN Collapsin-4 (chicken brain fragment) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 295

SEQ 1 DDKIYFFFTE VSVEYEFVGK LMIPRIARVC KRDQGGLRTL QKKWTSFLKA
===== =
51 RLIC TIPDKN LIFNIINDVF TLKSPTLKEP VIYGVFTPQL NNVGLSAVCA
101 YNLSAVEEEVF SKGKYMQSAT VEQSHTKWVR YNGEIPNPRP GACINNEARA
151 LNYVTSLNLP DKTQFVKDH PLMDDSVTPV GDRPRLVKRD VKYTQIVVDR
201 VRALNGTIYD VMFISTDQGA LHKAISYENG MHIEETQLF PKFEPVQTLL
251 LSSKKSRRYL YAGSNSGVVQ SPVAFCDTYT TCFDCV LARD PYCAW

HITS AT: 25-31

MF Unspecified

CI MAN

SR CA
LC STN Files: CAPLUS, CAPREVIEWS
1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L55 ANSWER 7 OF 10 REGISTRY COPYRIGHT 1995 ACS
RN 153551-67-8 REGISTRY
CN Semaphorin II (Drosophila melanogaster precursor reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin II (Drosophila melanogaster precursor reduced)
FS PROTEIN SEQUENCE
SQL 706

SEQ 1 MSLLQLSPLL ALLLLCSSL SETAADYENT WNFYYERPCC TGNDQGNNNY
51 GKHGADHVRE FNCGKLYYRT FHMNEDRDTL YVGAMDRVFR VNLQNISSSN
101 CNRDRAINLED CKNHVRVIQS MDQGDRLYVC GTNAHNPKDY VIYANLTHLP
151 RSEYVIGVGL GIAKCPYDPL DNSTAIYVEN GNPGGLPGLY SGTNAEFTKA
201 DTVIFRTDLY NTSAKRLEYK FKRTLKYDSK WLDKPNFVGS FDIGEYVYFF
251 FRETAVEYIN CGKAVYSRIA RVCKKDVGKG NLLAHNWATY LKARLNCSIS
=====

301 GEFPFYFNEI QSVYQLPSDK SRFFATFTTS TNGLIGSSAVC SFHINEIQAA
351 FNGKFKEQSS SNSAWLPVLN SRVPEPRPGT CVNNTSNLPD TVLFIRSHP
401 LMDKAVNHEH NNPVYYKRLD VFTKLVVVDKI RIDILNQEYI VYYVGTNLGR
451 IYKIVQYYRN GESLSKLLDI FEVAPNEAIQ VMEISQTRKS LYIGTDHRIK
501 QIDLAMCNRR YDNCFRCVRD PYCGWDKEAN TCRPYELDLL QDVANETSDI
551 CDSSVLKKKI VVTYQGSVHL GCFVKIPEVL KNEQVTWYHH SKDKGRYEIR
601 YSPTKYIETT ERGLVVVSVN EADGGRYDCH LGGSLLCSYN ITVDAHRCTP
651 PNKSNDYQKI YSDWCHEFEK YKTAMKSWEK KQGQCSTRQN FSCNQHPNEI
701 FRKPNV

HITS AT: 268-274
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L55 ANSWER 8 OF 10 REGISTRY COPYRIGHT 1995 ACS
RN 153551-66-7 REGISTRY
CN Semaphorin I (Drosophila melanogaster C-terminal fragment reduced) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fasciclin I (Drosophila melanogaster C-terminal fragment reduced)
FS PROTEIN SEQUENCE
SQL 656

SEQ 1 EDDCQNYIRI MVVPSPGRLF VCGTNSFRPM CNTYIISDSN YTLEATKNGQ
51 AVCPYDPRHN STSVLADNEL YSGTVADFSG SDPIIYREPL QTEQYDSL
101 NAPNFVSSFT QGDFVYFFF ETAVEFINCG KAIYSRVARV CKWDKGPHR
===== ==
151 FRNRWTSFLK SRLNCSIPGD YPFYFNEIQS ASNLVEGQYG SMSSKLIYGV
201 FNTPSNSIPG SAVCAFALQD IADTFEGQFK EQTGINSNWL PVNNAKVPDP
251 RPGSCHNDSR ALPDPTLNFI KTHSLMDENV PAFFSQPILV RTSTIYRFTQ
301 IAVDAQIKTP GGKTYDVIFV GTDHGKIIKS VNAESADSAD KVTSVVIIEI
351 DVLTKEPIR NLEIVRTMQY DQPKDGSYDD GKLIIVTDSQ VVAIQLHRCH
401 NDKITSCSEC VALQDPYCAW DKIAGKCRSH GAPRWLEENY FYQNVATGQH
451 AACPSGKINS KDANAGEGKG FRNDMDLLDS RRQSKDQEII DNIDKNFEGP

501 QTSADIINAQ YTVE TLVMAV LAGSIFSLLV GFFTGYFCGR RCHKDEDDNL
551 PYPDTEYEYF EQRQNVNSFP SSCRIQQEPK LLPQVEVTY AEPVLLPQPP
601 PPNKMHSPKN TLRKPPMHQM HQGPNSETLF QFHVTATTPS SRIVVATTSE
651 HCVPTR

HITS AT: 136-142

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L55 ANSWER 9 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 153551-65-6 REGISTRY

CN Semaphorin (Tribolium confusum precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin (Tribolium confusum precursor reduced)

FS PROTEIN SEQUENCE

SQL 710

SEQ 1 MVVKILVWSI CLIALCHAWM PDSSSKLINH FKSVESKSFT GNATFPDHFI
51 VLNQDETSIL VGGNRVYNL SIFDLSERKG GRIDWPSSDA HGQLCILKGK
101 TDDDCQNYIR ILYSSEPGKL VICGTONSYKP LCRTYAFKEG KYLVEKEVEG
151 IGLCPYNPEH NSTSVSYNGQ LFSATVADFS GGDPLIYREP QRTELSDLKQ
201 LNAPNFVNSV AYGDYIFFFY RETAVEYMN C GKVIYSRVAR VCKDDKGPH
===== =====
251 QSRDRWTSFL KARLNCSIPG EYPFYFDEIQ STSDIVEGRY NSDDSKIIYG
301 ILTTPVNAIG GSAICAYQMA DILRVFEGSF KHQETINSNW LPVPQNLVPE
351 PRPGQCVRDS RILPDKNVNF IKTHSLMEDV PALFGKPVLV RVSLQYRFTA
401 ITVDpqVKTI NNQYLDVLYI GTDDGKVLKA VNIPKRHAKA LLYRKYRTSV
451 HPHGAPVKQL KIAPGYGKVV VVGKDEIRLA NLNHCASKTR CKDCVELQDP
501 HCAWDAKQNL CVSIDTVTSY RFLIQDVVRG DDNKCWSPQT DKKTVIKNKP
551 SEVENEITNS IDEKLDSQDP LIKTGLDDDS DCDPVSENSI GGCACVRQQLV
601 IYTAGTLHIV VVVVSIVGLF SWLYSGLSVF AKFHSDSQYP EAPFIEQHNH
651 LERLSANQTG YLTPrANKAV NLVVKVSSST PRPKKDNLDV SKDLNIASDG
701 TLQKIKKTYI

HITS AT: 237-243

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:155251

L55 ANSWER 10 OF 10 REGISTRY COPYRIGHT 1995 ACS

RN 149223-89-2 REGISTRY

CN Fasciclin IV (grasshopper embryo precursor reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Fasciclin IV (grasshopper embryo gene Fas4)

CN Semaphorin I (grasshopper embryo gene Fas4)

FS PROTEIN SEQUENCE

SQL 730

SEQ 1 MRAALVAVAA LLWVALHAAA WVNDVSPKMY VQFGEERVQR FLGNESHKD

51 FKLLEKDHNS LLVGARNIVY NISLRDLTEF TEQRIEWHSS GAHRELCYLK
101 GKSEDDCQNY IRVLAKIDDD RVLICGTNAY KPLCRHYALK DGDYVVEKEY
151 EGRGLCPFDP DHNSTAIYSE GQLYSATVAD FSGTDPLIYR GPLRTERSDL
201 KQLNAPNFVN TMEYNDFIFF FFRETAVEYI NCGKAIYSRV ARVCKHDKG
== =====
251 PHQFGDRWTS FLKSRLNCSV PGDYPPFYFNE IQSTSIDIIEG NYGGQVEKLI
301 YGVFTTPVNS IGGSAVCAFS MKSILESFDG PFKEQETMNS NWLAVPSLK
351 PEPRPGQCVN DSRTLDPDSV NFVKSHTLMD EAVPAFFTRP ILIRISLQYR
401 FTKIAVDQQV RTPDGKAYDV LFIGTDDGKV IKALNSASFD SSDTVDSVVI
451 EELQVLPPGV PVKNLYVVRM DGDDSKLVVV SDDEILAIAKL HRCGSDKITN
501 CRECVSLQDP YCAWDNVELK CTAVGSPDWS AGKRRFIQNI SLGEHKACGG
551 RPQTEIVASP VPTQPTTKSS GDPVHSIHQA EFEPEIDNEI VIGVDDSNVI
601 PNTLAEINHA GS KL PSSQEK LPIYTAETLT IAIVTCLGA LVVGFISGFL
651 FSRRCRGEDY TDMPFPDQRH QLNRLTEAGL NADSPYLPPC ANNKA AINLV
701 LNVPPKNANG KNANSSAENK PIQKVKKTYI

HITS AT: 239-245

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, CAPREVIEWS, MEDLINE

- 1 REFERENCES IN FILE CAPREVIEWS
- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:91661

FILE 'CA' ENTERED AT 12:41:39 ON 02 NOV 95

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L56 0 FILE CA

L57 0 FILE CAOLD

L58 0 FILE CAPREVIEWS

L59 0 FILE CAPLUS

TOTAL FOR ALL FILES

L60 0 L55 NOT (L11 OR L9 OR L17 OR L23 OR L44)

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:41:57 ON 02 NOV 95

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STRUCTURE FILE UPDATES: 27 OCT 95 HIGHEST RN 169435-71-6

DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*** YOU HAVE NEW MAIL ***

=> s w[ta] [ts] [fy] lk [as] rl/sqsp
L61 20 W[TA] [TS] [FY] LK[AS] RL/SQSP

=> dis his

(FILE 'WPINDEX, USPATFULL' ENTERED AT 12:09:09 ON 02 NOV 95)
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 12:29:29 ON 02 NOV 95
L1 0 S DCQNYI/SQEP
L2 0 S DCQNYI/SQEP
L3 0 S CGT[NG] [AS] .. P
L4 15 S CGT[NG] [AS] .. P/SQSP
0 S L3 AND 8/SQL

FILE 'CA, CAPREVIEWS, CAPLUS, CAOLD' ENTERED AT 12:34:44 ON 02 NOV 95
L5 5 FILE CA
L6 3 FILE CAPREVIEWS
L7 8 FILE CAPLUS
L8 0 FILE CAOLD
TOTAL FOR ALL FILES
L9 16 S L3
L10 8 DUP REM L9 (8 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 12:35:08 ON 02 NOV 95
L11 5 S G. [SC] PYDP/SQSP

FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS' ENTERED AT 12:35:49 ON 02 NOV 95
L12 0 FILE CA
L13 0 FILE CAOLD
L14 0 FILE CAPREVIEWS
L15 0 FILE CAPLUS
TOTAL FOR ALL FILES
L16 0 S L11 NOT L9

FILE 'REGISTRY' ENTERED AT 12:35:58 ON 02 NOV 95
L17 9 S LYSGT[VNA]A/SQSP

FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS' ENTERED AT 12:36:44 ON 02 NOV 95
L18 0 FILE CA
L19 0 FILE CAOLD
L20 0 FILE CAPREVIEWS
L21 0 FILE CAPLUS
TOTAL FOR ALL FILES
L22 0 S L17 NOT (L11 OR L9)

FILE 'REGISTRY' ENTERED AT 12:36:58 ON 02 NOV 95
L23 6 S LNAPNFV/SQSP
L24 0 S LNAPNFV/SQEP

FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS' ENTERED AT 12:37:59 ON 02 NOV
95

L25 0 FILE CA
L26 0 FILE CAOLD
L27 0 FILE CAPREVIEWS
L28 0 FILE CAPLUS
TOTAL FOR ALL FILES
L29 0 S L23 NOT (L11 OR L9 OR L17)

FILE 'REGISTRY' ENTERED AT 12:38:13 ON 02 NOV 95

L30 17 S [FY]FF[FY]RE/SQSP
L31 1 S L30 AND 5-15/SQL

FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS' ENTERED AT 12:38:58 ON 02 NOV
95

L32 1 FILE CA
L33 0 FILE CAOLD
L34 0 FILE CAPREVIEWS
L35 1 FILE CAPLUS
TOTAL FOR ALL FILES
L36 2 S L31
L37 1 DUP REM L36 (1 DUPLICATE REMOVED)

FILE 'REGISTRY' ENTERED AT 12:39:13 ON 02 NOV 95

L38 6 S E[FY]IN[CS]GK/SQSP
L39 0 S L38 AND 5-15/SQL

FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS' ENTERED AT 12:39:57 ON 02 NOV
95

L40 2 FILE CA
L41 0 FILE CAOLD
L42 1 FILE CAPREVIEWS
L43 3 FILE CAPLUS
TOTAL FOR ALL FILES
L44 6 S L38
L45 0 FILE CA
L46 0 FILE CAOLD
L47 0 FILE CAPREVIEWS
L48 0 FILE CAPLUS
TOTAL FOR ALL FILES
L49 0 S L44 NOT (L11 OR L9 OR L17 OR L23)
L50 0 FILE CA
L51 0 FILE CAOLD
L52 0 FILE CAPREVIEWS
L53 0 FILE CAPLUS
TOTAL FOR ALL FILES
L54 0 S R[VI]ARVCK/SQSP

FILE 'REGISTRY' ENTERED AT 12:41:00 ON 02 NOV 95

L55 10 S R[VI]ARVCK/SQSP

FILE 'CA, CAOLD, CAPREVIEWS, CAPLUS' ENTERED AT 12:41:39 ON 02 NOV
95

L56 0 FILE CA
L57 0 FILE CAOLD
L58 0 FILE CAPREVIEWS
L59 0 FILE CAPLUS
TOTAL FOR ALL FILES
L60 0 S L55 NOT (L11 OR L9 OR L17 OR L23 OR L44)

FILE 'REGISTRY' ENTERED AT 12:41:57 ON 02 NOV 95

L61 20 S W[TA] [TS] [FY] LK[AS] RL/SQSP

=> s 161 not (155 or 138 or 130 or 123 or 117 or 111 or 13)

L62 3 L61 NOT (L55 OR L38 OR L30 OR L23 OR L17 OR L11 OR L3)

=> d 1-3 sqide can;fil ca,caol,capre,caplus;s 162 not (111 or 19 or 117 or 123 o

L62 ANSWER 1 OF 3 REGISTRY COPYRIGHT 1995 ACS

RN 168458-98-8 REGISTRY

CN Semaphorin SemE (mouse) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Collapsin SemE (mouse)

FS PROTEIN SEQUENCE

SQL 751

SEQ 1 MAFRAICVLV GVFICSCIVR GSSQPQARVY LTFDELRETK TSEYFSLSHQ
51 QLDYRILLMD EDQDRIYVGS KDHILSLNIN NISQEPLSVF WPASTIKVEE
101 CKMAGKDPTH GCGNFVRVIQ TFNRTHLYVC GSGAFSPVCT YLNRRRSSED
151 QVFMIDSKE SGKGRCFSNP NVNTVSVMIN EELFGSMYID FMGTDAAIFR
201 SLTKRMQLRT DQHNSKWLSE PMFVDAHVIP DGTDPNDAKV YFFFKERLTD
251 NNRSTKQIHS MIARICPNDT GGQRSLVWK TTFLKARLVC SVTDEDGPET
= =====
301 HFDELEDVFL LETDNPRRTL VYGIFTSSS VFKGSACVY HLSDIQTVFN
351 GPFAHKEGPN HQLISYQGRI PYPRPGTCVG GAFTPNCMRRTT KDFPDDVVTF
401 IRNHPLMYNS ISPIHRRPLI VRIGTDYKYT KIAVDRVNAA DGRYHVLFLG
451 TDRGTVQKVV VLPTNSSASG ELILEELEVF KNHVPITTME ISSKKQQLYV
501 SSNEGVSQVS LHRCHIYGTA CADCCLARDP YCAWDGHSCS RFYPTGKRRS
551 RRQDVRHGNP LTQCRGFNLK AYRNAAEIVQ YGVRNNSTFL ECAPKSPQAS
601 IKWLLQKDKD RRKEGKLNER IIATSQGLLI RSVQDSQGL YHCIATENSF
651 KQTIAKINFK VLDSEMVAVV TDKWSPWTWA GSVRALPFHP KDILGAFSHS
701 EMQLINQYCK DTRQQQLGE EPQKMRGDXG KLKALINSRK SRNRRNQLPE
751 S

HITS AT: 280-288

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:221278

L62 ANSWER 2 OF 3 REGISTRY COPYRIGHT 1995 ACS

RN 167470-96-4 REGISTRY

CN Collapsin-3 (chicken brain fragment) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SQL 294

SEQ 1 DDKIYFFFKE RLTDNSGSTK QIHSMIARIC PNDTGGQRSL VNWKTTFLKA
=====
51 RLVCSVMDDE GTETYFDELE DVFLLETDNP RTTLVYGYFT TSSSIFKGSA
==
101 VCVYHLSDIQ TVFNGPFAHK EGSNHQLIPY QGRIPYPRPG TCPGGAFTP
151 MRTTKEFPDD VVT FIRNDPL MYNPIYPIHK RPLIIRIGTD YKYTKIAVDR
201 VNAADGRCHV LFLGTDQGTW QKVVVLPTNF SASGELILEE LEVFQSNSPI
251 TTMKISSKKQ QLYVSSEEGV TQVPLHRCRI YGTACADCCL ARDP

HITS AT: 44-52

MF Unspecified

CI MAN
SR CA
LC STN Files: CAPLUS, CAPREVIEWS
1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L62 ANSWER 3 OF 3 REGISTRY COPYRIGHT 1995 ACS
RN 166989-98-6 REGISTRY
CN Glycine, L-tryptophyl-L-threonyl-L-threonyl-L-phenylalanyl-L-leucyl-L-lysyl-L-alanyl-L-arginyl-L-leucyl-L-isoleucyl-L-cysteinyl-L-seryl-L-valyl-L-prolyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin (human 15-amino acid fragment)
FS PROTEIN SEQUENCE
SQL 15

SEQ 1 WTTFLKARLI CSVPG
=====

HITS AT: 1-9
MF C79 H126 N20 O19 S
SR CA
LC STN Files: CA, CAPLUS
DES 5:ALL,L

/ Structure 3 in file .gra /

/ Structure 4 in file .gra /

/ Structure 5 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:225934

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L63 1 FILE CA
L64 0 FILE CAOLD

L65 0 FILE CAPREVIEWS
L66 1 FILE CAPPLUS

TOTAL FOR ALL FILES

L67 2 L62 NOT (L11 OR L9 OR L17 OR L23 OR L44)

=> dup rem 167;d an .mh

DUPLICATE IS NOT AVAILABLE IN 'CAOLD'. ANSWERS FROM THESE FILES WILL BE
CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L67

L68 1 DUP REM L67 (1 DUPLICATE REMOVED)

L68 ANSWER 1 OF 1 CA COPYRIGHT 1995 ACS DUPLICATE 1

AN 123:225934 CA

TI Antibodies which bind human collapsin and use for neurite outgrowth
induction and nerve damage treatment

SO U.S., 11 pp.

CODEN: USXXAM

IN Raper, Jonathan A.; Luo, Yuling

PI US 5416197 A 950516

AI US 93-136922 931015

PY 1995

AB Essentially pure human collapsin and its uses are disclosed. An isolated nucleic acid mol. that comprises a nucleotide sequence that is complementary to a nucleotide sequence that encodes a portion of human collapsin is disclosed. Antibodies that specifically bind to human collapsin and that inhibit its activity are disclosed. Methods of inhibiting the activity of collapsin, methods of inducing neurite outgrowth and methods of treating individuals suffering from nerve damage comprising the step of contacting neuronal cells with nucleic acid mol. that comprises a nucleotide sequence that is complementary to a nucleotide sequence that encodes a portion of human collapsin or comprising the step of contacting a neuronal cell with an antibody that specifically binds to human collapsin are disclosed. Methods of identifying compds. that inhibit the activity of human collapsin comprising the steps of contacting a neuronal cell with human collapsin in the presence of a test compd. are disclosed.

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:44:29 ON 02 NOV 95

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DICTIONARY FILE UPDATES: 1 Nov 95 HIGHEST RN 169435-71-6

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*** YOU HAVE NEW MAIL ***

=> s pfyf[nd]eiqs/sqsp

L69 8 PFYF[ND]EIQS/SQSP

=> s 169 not (155 or 138 or 130 or 123 or 117 or 111 or 13)
L70 0 L69 NOT (L55 OR L38 OR L30 OR L23 OR L17 OR L11 OR L3)

=> s gsavc.[fy]/sqsp
L71 16 GSAVC.[FY]/SQSP

=> s 171 not (169 or 155 or 138 or 130 or 123 or 117 or 111 or 13)
L72 2 L71 NOT (L69 OR L55 OR L38 OR L30 OR L23 OR L17 OR L11 OR L3)

=> d 1-2 sqide can;

L72 ANSWER 1 OF 2 REGISTRY COPYRIGHT 1995 ACS
RN 168458-98-8 REGISTRY
CN Semaphorin SemE (mouse) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Collapsin SemE (mouse)
FS PROTEIN SEQUENCE
SQL 751

SEQ 1 MAFRAICVLV GVFICSLCVR GSSQPQARVY LTFDELRETK TSEYFSLSHQ
51 QLDYRILLMD EDQDRIYVGS KDHILSLNIN NISQEPLSVF WPASTIKVEE
101 CKMAGKDPHT GCGNFVRVIQ TFNRTHLYVC GSGAFSPVCT YLNRRGRSED
151 QVFMIDSKE SGKGRCFSNP NVNTVSVMIN EELFSGMYID FMGTDAAIFR
201 SLTKRMQLRT DQHNSKWLSE PMFVDAHVIP DGTDPNDAKV YFFFKERLTD
251 NNRSTKQIHS MIARICPNDT GGQRSLVNKW TTFLKARLVC SVTDEDGPET
301 HFDELEDVFL LETDNPRRTL VYGIFTSSS VFKGSAVCVY HLSDIQTVFN
=====
351 GPFAHKEGPN HQLISYQGRI PYPRPGTCPG GAFTPNNMRTT KDFPDDVVTF
401 IRNHPLMYNS ISPIHRRPLI VRIGTDYKYT KIAVDRVNA A DGRYHVLFLG
451 TDRGTVQKVV VLPTNSSASG ELILEELEVF KNHVPITTME ISSKKQQLYV
501 SSNEGVSQVS LHRCHIYGT A CADCCLARDP YCAWDGHSCS RFYPTGKRRS
551 RRQDVRHGNP LTQCRGFNLK AYRNAAEIVQ YGVRNNSTFL ECAPKSPQAS
601 IKWLLQKDKD RRKEGKLNER IIATSQGLLI RSVQDSQQL YHCIATENSF
651 KQTIAKINF VLDSEMVAVV TDKWSPWTWA GSVRALPFHP KDILGAFSHS
701 EMQLINQYCK DTRQQQLGE EPQKMRGDYK KLKALINSRK SRNRRNQLPE
751 S

HITS AT: 334-340
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:221278

L72 ANSWER 2 OF 2 REGISTRY COPYRIGHT 1995 ACS
RN 167470-96-4 REGISTRY
CN Collapsin-3 (chicken brain fragment) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 294

SEQ 1 DDKIYFFFKE RLTDNSGSTK QIHSMIARIC PNDTGGQRSL VNKWTTFLKA
51 RLVCSVMD ED GTETYFDELE DVFLLETDP RTTLVYGYIFT TSSSIFKGSA
=====
101 VCVYHLSDIQ TVFNGPFAHK EGSNHQLIPY QGRIPYPRPG TCPGGAFTP
151 MRTTKEFPDD VVT FIRNDPL MYNPIYPIHK RPLIIRIGTD YKYTKIAVDR
201 VNAADGRCHV LFLGTDQGT V QKVVVLPTNF SASGELILEE LEVFQSNSPI

251 TTMKISSKKQ QLYVSSEEGV TQVPLHRCRI YGTACADCCL ARDP
HITS AT: 98-104
MF Unspecified
CI MAN
SR CA
LC STN Files: CAPLUS, CAPREVIEWS
1 REFERENCES IN FILE CAPREVIEWS
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> fil ca,caol,capre,caplus;s 172
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L73 1 FILE CA
L74 0 FILE CAOLD
L75 1 FILE CAPREVIEWS
L76 2 FILE CAPLUS

TOTAL FOR ALL FILES
L77 4 L72

=> dup rem 177
DUPLICATE IS NOT AVAILABLE IN 'CAOLD'. ANSWERS FROM THESE FILES WILL BE
CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L77
L78 2 DUP REM L77 (2 DUPLICATES REMOVED)

=> d 1-2 an .mh

L78 ANSWER 1 OF 2 CApreviews COPYRIGHT 1995 ACS DUPLICATE 1
AN 95:394055 CApreviews
TI A family of molecules related to collapsin in the embryonic chick
nervous system
SO Neuron (1995), 14(6), 1131-40
CODEN: NERNET; ISSN: 0896-6273
AU Luo, Yuling; Shepherd, Iain; Li, Jie; Renzi, Michael J.; Chang,
Susannah; Raper, Jonathan A.
PY 1995
AB Signaling mols. with either attractive or repulsive effects on
specific growth cones are likely to play a role in guiding axons to
their appropriate targets. A chick brain glycoprotein, collapsin,
has been shown to be a good candidate for a repulsive guidance cue.
We report here the discovery of four new mols. related to collapsin
in chick brains. All contain a semaphorin domain. One is
structurally very similar to collapsin but is only 50% identical in
its amino acid sequence. E have named it collapsin-2. The

collapsin-related genes exhibit distinct but overlapping patterns of mRNA expression in the developing spinal cord and the developing visual system. This family of collapsin-related mols. could potentially act as repulsive cues toward specific neuronal populations.

L78 ANSWER 2 OF 2 CA COPYRIGHT 1995 ACS DUPLICATE 2
AN 123:221278 CA
TI Murine semaphorin D/collapsin is a member of a diverse gene family and creates domains inhibitory for axonal extension
SO Neuron (1995), 14(5), 941-8
CODEN: NERNET; ISSN: 0896-6273
AU Pueschel, Andreas W.; Adams, Ralf H.; Betz, Heinrich
PY 1995
AB Members of the collapsin/semaforin gene family have been proposed to act as growth cone guidance signals in vertebrates and invertebrates. To identify candidate mols. involved in axonal pathfinding during mouse embryogenesis, the authors isolated cDNAs encoding five new members of the semaphorin family (Sem A-Sem E). The murine semaphorin genes are differentially expressed in mesoderm and neuroectoderm before and during the time when axons select their pathways in the embryo. In explant cultures, recombinant Sem D/collapsin converts a matrix permissive for axonal growth into one that is inhibitory for neurites of peripheral ganglia. These data demonstrate that semaphorins are a diverse family of mols. that may provide local signals to specify territories non-accessible for growing axons.

=> fil reg
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*** YOU HAVE NEW MAIL ***

=> s nsnwl[pa]v/sqsp
L79 6 NSNWL[PA] V/SQSP

=> s 179 not (l72 or l69 or l55 or l38 or l30 or l23 or l17 or l11 or l3)
L80 0 L79 NOT (L72 OR L69 OR L55 OR L38 OR L30 OR L23 OR L17 OR L11 OR L3)

=> s p[ed]prpg[tqs]c/sqsp
L81 8 P[ED] PRPG[TQS]C/SQSP

=> s 181 not (l72 or l79 or l69 or l55 or l38 or l30 or l23 or l17 or l11 or l3)
L82 0 L81 NOT (L72 OR L79 OR L69 OR L55 OR L38 OR L30 OR L23 OR L17 OR L11 OR L3)

=> s dpyc[ag]wd/sqsp
L83 15 DPYC[AG]WD/SQSP

=> s 182 not (181 or 172 or 179 or 169 or 155 or 138 or 130 or 123 or 117 or 111
L84 0 L82 NOT (L81 OR L72 OR L79 OR L69 OR L55 OR L38 OR L30 OR
L23 OR L17 OR L11 OR L3)

=> del 184 y;s 183 not (181 or 172 or 179 or 169 or 155 or 138 or 130 or 123 or
'L84' DELETED

L84 0 L83 NOT (L81 OR L72 OR L79 OR L69 OR L55 OR L38 OR L30 OR
L23 OR L17 OR L11 OR L3)